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SHARP 21J-FV1RU SERVICE MANUAL

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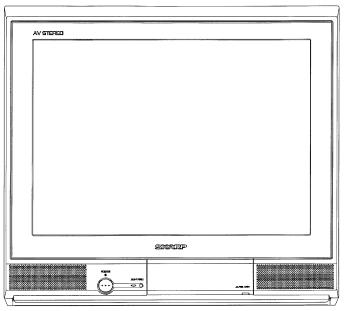
SHARP SERVICE MANUAL

No. S75L321JFV1RU



COLOUR TELEVISION

Chassis No. GA-4

MODEL 21J-FV1RU

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

FEATURES

- Multi 21 Systems
- Full Auto Channel Preset and Auto Channel Skip
- 100-CH Program Memory
- CATV (Hyper Band) Ready <Used Frequency Synthesizer Tuner>
- Black Stretch Circuit
- On Timer / Off Timer / Reminder Timer
- Blue Back Noise Mute
- Front AV IN & Rear AV IN / OUT Terminals
- Front Headphone Jack
- Aperture Control Circuit
- Auto Fine Tuning
- Colour Comb Filter (NTSC Only)
- High Contrast Picture
- Hotel Mode
- English / Russian 2 Languages OSD
- White Temperature Select
- Component In
- Surround Sound Effect (With Bass / Treble / Balance)
- AV Stereo

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Parts Guide

WARNING

The chassis in this receiver is partially hot. Use an isolation transformer between the line cord plug and power receptacle, when servicing this chassis. To prevent electric shock, do not remove cover. No user - serviceable parts inside. Refer servicing to qualified service personnel.

SHARP CORPORATION

CHAPTER 1. SPECIFICATIONS

[1] SPECIFICATIONS

Convergence	Self Convergence System
Focus	Electrostatic Focus High Bi-Potential
Sweep Deflection	Magnetic
Intermediate Frequencies	
Picture IF Carrier	38.9MHz
Sound IF Carrier Frequency	
6.5MHz	32.4MHz
6.0MHz	32.9MHz
5.5MHz	33.4MHz
4.5MHz	34.4MHz
Colour Sub-Carrier Frequency	34.47MHz
Power Input	220 ~ 240V AC 50/60 Hz
Power Consumption	97W
Audio Power Output Rating	4W(rms) x 2
Speaker	
Size	9 x 5 cm (2 pcs)
Voice Coil Impedance	16 ohms at 400 Hz
Aerial Input Impedance	
VHF/UHF	75 ohms Unbalanced
Receiving System	PAL I, B/G, D/K & SECAM B/G, D/K, -K1 & NTSC M
Receiving Channel	
VHF-Channels	E2(48.25MHz) thru E12(224.25MHz) C1(49.75MHz) thru C12(216.25 MHz) S1(105.25MHz) thru S41(463.25HMz)
UHF-Channels	E21(471.25MHz) thru E69(855.25MHz) C13(471.25MHz) thru C57(863.25MHz)
Dimensions	Width: 503mm Height: 486mm Depth: 482mm Weight(approx): 22 kg
Cabinet material	All Plastics

Specifications are subject to change without prior notice

CHAPTER 2. IMPORTANT SERVICE NOTES

[1] IMPORTANT SERVICE NOTES

Maintenance and repair of this receiver should be done by qualified service personnel only.

1. SERVICE OF HIGH VOLTAGE SYSTEM AND PICTURE TUBE

When servicing the high voltage system, remove static charge from it by connecting a 10K ohm resistor in series with an insulated wire (such as a test probe) between picture tube dag and 2nd anode lead. (AC line cord should be disconnected from AC outlet.)

1) Picture tube in this receiver employs integral implosion protection.
2) Replace with the same type number of picture tube for continued safety.
3) Do not lift picture tube by the neck.
4) Handle the picture tube only when wearing shatterproof goggles and after discharging the high voltage completely.

2. X-RAY

This receiver is designed so that any X-Ray radiation is kept to an absolute minimum. Since certain malfunctions or servicing may produce potentially hazardous radiation with prolonged exposure at close range, the following precautions should be observed:

1) When repairing the circuit, please make sure do not increase the high voltage of the set to more than 30.0kV (at beam 0μA).
2) To keep the set in a normal operation, be sure to make it function on 27.0kV ± 1.5kV (at beam 1000μA) in the case of the set. The set has been factory - Adjusted to the above mentioned high voltage.

   *If there is a possibility that the high voltage fluctuates as a result of the repairs, never forget to check for such high voltage after the work.
3) Do not substitute a picture tube with unauthorized types and/or brands which may cause excessive X-ray radiation.

3. BEFORE RETURNING THE RECEIVER

Before returning the receiver to the user, perform the following safety checks.

1) Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the receiver.
2) Inspect all protective devices such as non-metal control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators etc.

CHAPTER 3. ADJUSTMENT PRECAUTIONS

[1] ADJUSTMENT PRECAUTIONS

This model's setting are adjusted in two different ways: through the I2C bus control and in the conventional analog manner. The adjustments via the I2C bus control include preset-only items and variable data.

CAUTION: Make sure TV set in "Normal condition" before switch to Service Mode for adjustment.

1. Setting the service mode by the microprocessor.
   - i) Press SERVICE key on the remote controller to set the TV set to SERVICE mode position, and the microprocessor is in input mode. (Adjustment through the I2C bus control).
   - ii) Press the MENU key on the remote controller to get ready to select the mode (Adjustment mode, Setting mode, Check mode and Option mode) one by one.
   - iii) Press the CH DOWN / UP key on the remote controller to select the item in Adjustment mode, Setting mode or Option mode.
   - iv) Using the VOLUME UP/ DOWN key on the remote controller, the data can be modified. Please wait approximately 200 msec for data storage in EEPROM before select to another mode.
   - v) In Check mode the data cannot be changed.
   - vi) Press the SERVICE key again, it will switch to the NORMAL mode position, and the microprocessor is out of the SERVICE mode.

2. Factory Presetting.
   - i) Power ON the TV set, press the SERVICE key on the remote controller, then press both the CH UP and VOL UP button on the set simultaniously for 5secs. Initial values are automatically preset, only when a new EEPROM is used.
   - ii) The initial data are preset as listed in page 6~11.
   - iii) Make sure the data need modification or not (Initial data).

     Precaution: If haven't done this initialization, it may possibly generate excessive Beam current.

3. For reference please check with memory map RH-IXB224WJZZ (See attachment)

1. ADJUSTMENT ITEM

***Below are the adjustment items that should be done, PLS FOLLOW THE PROCEDURE. Otherwise some adjustment items will not be accurate.

NO ***	ADJUSTMENT ITEM	EFFECTIVE MODEL	REVISION
1	BUS SET UP		
2	OPTION SET UP		
3	H-VCO		
4	VIF-VCO		
5	S-TRAP fo		
6	RF-AGC		
7	PURITY ADJ		
8	CONVERGENCE ADJ		
9	FOCUS ADJ		
10	V-SHIFT (50 Hz)		
11	H-SHIFT (50 Hz)		
12	V-SIZE (50 Hz)		
13	SCREEN		
14	WHITE BALANCE		
15	SUB-BRIGHTNESS		
16	SUB-CONTRAST		
17	SUB-TINT		
18	SUB-COLOR		
19	SECAM-OFFSET		
20	SIF VCO ADJ		
21	BEAM CURRENT CHECK		
22	BEAM PROTECTOR CHECK		
23	HV PROTECTOR CHECK		
24	OTHER PROTECTOR CHECK		
25	AV OUT CHECK		
26	AV IN CHECK		
27	COMPONENT IN CHECK		
28	CONTRAST CONTROL CHECK		
29	COLOR CONTROL CHECK		
30	BRIGHTNESS CONTROL CHECK		
31	TINT CONTROL CHECK		
32	SHARPNESS CONTROL CHECK		
33	CH DISPLAY COLOR CHECK		
34	NORMAL DISPLAY CHECK		
35	WHITE TEMP CONTROL CHECK		
36	COLOR SYSTEM CHECK		
37	SURROUND CHECK		
38	TREBLE CHECK		
39	BASS CHECK		
40	BALANCE CHECK		
41	SOUND SYSTEM CHECK		
42	NOISE MUTE CHECK		
43	OSD LANGUAGE QUANTITY CHECK		
44	HEAD PHONE CHECK		
45	SHOCK TEST CHECK		
46	ROM CORRECTION CHECK		

2. USER DATA IN SERVICE MODE

1) While SERVICE mode ON, EEPROM DATA will switch to the service data. Also, once SERVICE mode OFF, EEPROM will switch back to previous USER DATA.

2) In the service mode, the user data establish as below,

	USER DATA
CONTRAST	MAX (60)
COLOUR	CENT (0)
BRIGHTNESS	CENT (0)
TINT	CENT (0)
SHARPNESS	CENT (0)
WHITE TEMP	STANDARD
S-VOLUME	MIN
SURROUND	OFF
TREBLE	CENT (0)
BASS	CENT (0)
BALANCE	CENT (0)
BLUE BACK	OFF
C SYSTEM	AUTO
S SYSTEM	*1

*1: For each CH, data is same as before switch to Service mode.

The flow of Mode list as following,

* Direct Key-in Mode for Service Items in Service Mode

RC CODE (HEX)	R/C KEY NAME	SERVICE-ITEM
80	POS 1	R-C UP (IN SERVICE MODE V00)
40	POS 2	G-C UP (IN SERVICE MODE V00)
C0	POS 3	B-C UP (IN SERVICE MODE V00)
20	POS 4	R-C DOWN (IN SERVICE MODE V00)
A0	POS 5	G-C DOWN (IN SERVICE MODE V00)
60	POS 6	B-C DOWN (IN SERVICE MODE V00)
E0	POS 7	R-D UP (IN SERVICE MODE V00)
10	POS 8	B-D UP (IN SERVICE MODE V00)
50	POS 0	B-D DOWN (IN SERVICE MODE V00)
E4	FLASHBACK	R-D DOWN (IN SERVICE MODE V00)
E4	FLASHBACK	Y-MUTE (BESIDES OF SERVICE MODE V00)
75	WHITE TEMP UP	RF-AGC (V01)
F5	WHITE TEMP DOWN	VIF-VC0 (V02)
C2	TUNE DOWN	H-VCO (V03)
8D	SHARPNESS DOWN	SUB-CON (V04)
D6	BALANCE LEFT	SUB-COL (V05)
0D	SHARPNESS UP	SUB-BRIGHT (V06)
36	BALANCE RIGHT	SUB-TINT (V07)
46	TREBLE UP	SUB-SHP (V08)
C6	TREBLE DOWN	SUB-COL-YUV (V09)
26	BASS UP	SUB-TINT-YUV (V10)
24	COLOUR UP	V-SIZE (V11), V-SIZE60 (V17)
54	BRIGHTNESS DOWN	V-SHIFT (V12), V-SHIFT60 (V18)
74	TINT DOWN	H-SHIFT (V13), H-SHIFT60 (V19)
66	SURROUND UP	SCM-BR (V14)
E6	SURROUND DOWN	SCM-BB (V15)
C4	CONTRAST DOWN	SUB-VOL (V16)
4C	PICTURE	S-TRAP-BG (V20)
CC	HOLD	S-TRAP-I (V21)
2C	TEXT	S-TRAP-DK (V22)
AC	CANCEL	S-TRAP-M (V23)
EC	SIZE	S-TRAP-574 (V24)
80	POS 1	R-C UP YUV (IN SERVICE MODE V25)
40	POS 2	G-C UP YUV (IN SERVICE MODE V25)
C0	POS 3	B-C UP YUV (IN SERVICE MODE V25)
20	POS 4	R-C DOWN YUV (IN SERVICE MODE V25)
A0	POS 5	G-C DOWN YUV (IN SERVICE MODE V25)

RC CODE (HEX)	R/C KEY NAME	SERVICE-ITEM
60	POS 6	B-C DOWN YUV (IN SERVICE MODE V25)
E0	POS 7	R-D UP YUV (IN SERVICE MODE V25)
10	POS 8	B-D UP YUV (IN SERVICE MODE V25)
50	POS 0	B-D DOWN YUV (IN SERVICE MODE V25)
E4	FLASHBACK	R-D DOWN YUV (IN SERVICE MODE V25)
C1		AUTO ADJ FOR V01, V02, V03, V20, V21, V22, V23, V24
CA		T-SET
81		SERVICE MODE

1) Please set the MCL to MCL1 as below:
2) After set the MCL, please set the INITIAL SETTING to INITIAL 5.
(All Channel Sound System are set to D/K)

MCL1 (HEX AE)		
CH-No	Fv (MHz)	Sound Sys
0		
1	48.25	B/G
2	62.25	B/G
3	77.25	D/K
4	175.25	B/G
5	182.25	B/G
6	183.25	D/K
7	191.25	D/K
8	196.25	B/G
9	199.25	M
10	210.25	B/G
11	224.25	B/G
12	471.25	B/G
13	487.25	I
14	503.25	B/G
15	575.25	B/G
16	583.25	B/G
17	599.25	B/G
18	621.25	M
19	639.25	D/K
20	703.25	B/G
21	735.25	I
22	767.25	B/G
23	815.25	B/G
24	855.25	I
25	855.25	B/G
26	55.25	M
27	83.25	M
28	183.25	M
29	193.25	M
30	217.25	M
31	471.25	M
32	477.25	M
33	693.25	M
34	885.25	M
35	112.25	B/G
36	168.25	B/G
37		
38	294.25	B/G
39	463.25	B/G
40		
41	647.25	B/G
42	663.25	B/G
43	679.25	B/G
44	174.95	B/G
45	175.55	B/G
46		

MCL1 (HEX AE)		
CH-No	**Fv (MHz)**	**Sound Sys**
47		
48		
49		
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		

*NOTE: PLL DATA OF ABOVE FREQ SHOULD TAKE THE ACCOUNT OF PIF SETTING IN SERVICE OPTION O04 (VIF) BEFORE STORING INTO EEPROM.

3. SHIPPING SETTING & CHECKING

1) The following default data has been factory-set for the E2PROM follow by INITIAL DATA selected.

ITEMS	DATA SETTING
LAST POWER	ON
LAST TV/AV MODE	TV MODE
LAST POSITION	CH 1
FLASHBACK CHANNEL	CH 1
1/2 DIGIT ENTRY	2 DIGIT ENTRY
VOLUME	0 (Min)
BLUE BACK	OFF
OFF TIMER	--:--
ON TIMER	--:--
ON TIMER POSITION	--
ON TIMER VOLUME	--
REMINDER	--:--
AFT	ALL CH ON
COLOR SYSTEM	ALL CH AUTO
SKIP	ALL CH OFF
NICAM ON/OFF	ALL CH ON
NICAM STEREO MODE	ALL CH STEREO
NICAM BILINGUAL MODE	ALL CH MAIN
NICAM MONO MODE	ALL CH MONO
A2 ON/OFF	ALL CH ON
A2 STEREO MODE	ALL CH STEREO
A2 BILINGUAL MODE	ALL CH MAIN
CONTRAST	60
COLOR	0
BRIGHTNESS	0
TINT	0
SHARPNESS	0
WHITE TEMP	0
SURROUND	OFF
TREBLE	0
BASS	0
BALANCE	0 (CENTER)

INITIAL	LANGUAGE	SOUND SYSTEM
5 (HEX 57)	RUSSIAN	D/K

FACTORY SETTING BY MODEL

(Reference: Geomagnetism Adjustment)

MODEL	MAGNETIC FIELD(V, H) nT		BACKGROUND	LANG.	S-SYS	LANG QTY
RUSSIAN	45000	20000	7500K	RUSSIAN	D/K	2

*NOTE FOR OSD TYPE:

2: ENGLISH / RUSSIAN

**AFTER INITIALIZED THE EEPROM (REFER TO FACTORY PRESETTING), READ DATA FROM EEPROM ADDRESS 00H ~ 03H,AND COMPARE TO THE LIST BELOW, IF DIFFERENT, INITIALIZE THE EEPROM.

ADDRESS	DATA	ADDRESS	DATA
00H:	7BH	02H:	72H
01H:	72H	03H:	74H

*** There are four stages of service mode data. First stage data from V00~V31 (Adjustment Mode).

To go into second stage of service mode data, press MENU key.Second stage data from F01~F140 (Setting Mode).

To go into third stage of service mode data, press MENU key.Third stage data is Check Mode.

To go into fourth stage of service mode data, press MENU key.Fourth stage data from 001~030 (Option Mode).

ADJUSTMENT MODE (FIRST STAGE)					
EEPROM ITEMS	OSD	DATA LENGTH	INITIAL DATA	FIX/ADJ/AUTO	REMARK
R-DRIVE	V00	0~127	63	ADJ	PLS REFER TO
B-DRIVE	V00	0~127	63	ADJ	ADJ ITEM FOR
R-CUT	V00	0~255	127	ADJ	SCREEN AND
G-CUT	V00	0~255	127	ADJ	WHITE BALANCE
B-CUT	V00	0~255	127	ADJ	
RF-AGC	V01	0~127	50	AUTO	
VIF-VCO	V02	0~63	31	AUTO	
H-VCO	V03	0~7	3	AUTO	
SUB-CONTRAST	V04	0~127	100	ADJ	
SUB-COLOR	V05	0~127	63	ADJ	
SUB-BRIGHT	V06	0~255	127	ADJ	
SUB-TINT	V07	0~127	63	ADJ	
SUB-SHARPNESS	V08	0~63	43	FIX	
SUB-COLOR -YUV	V09	0~127	90	*FIX	BUS SETUP
SUB-TINT-YUV	V10	0~127	63	FIX	
V-SIZE 50 Hz	V11	0~63	38	ADJ	
V-SHIFT 50 Hz	V12	0~7	3	ADJ	
H-SHIFT 50 Hz	V13	0~31	9	ADJ	
SECAM-BR	V14	0~63	37	ADJ	
SECAM-BB	V15	0~63	22	ADJ	
SUB-VOL	V16	0~60	60	FIX	
V-SIZE 60 Hz	V17	-31~0~+31	0	FIX	IF NECESSARY, ADJ
V-SHIFT 60 Hz	V18	-7~0~+7	-1	FIX	IF NECESSARY, ADJ
H-SHIFT 60 Hz	V19	-15~0~+15	+2	FIX	IF NECESSARY, ADJ
S-TRAP (BG)	V20	0~15	7	AUTO	
S-TRAP (I)	V21	0~15	7	AUTO	
S-TRAP (DK)	V22	0~15	7	AUTO	
S-TRAP (M)	V23	0~15	7	AUTO	
S-TRAP (5.74)	V24	0~15	7	AUTO	
CUTOFF/BKGD YUV	V25				
R-DRI YUV	V25	0~127	63	FIX	
B-DRI YUV	V25	0~127	63	FIX	
R-CUT YUV	V25	0~255	127	FIX	
G-CUT YUV	V25	0~255	127	FIX	
B-CUT YUV	V25	0~255	127	FIX	
SUB-CON YUV	V26	0~127	100	FIX	
SUB-BRIGHT YUV	V27	0~255	127	FIX	
VS-CORRECT	V28	0~63	32	FIX	
VC-CORRECT OFFSET	V29	-13~+13	0	FIX	
V LINEARITY	V30	0~63	32	FIX	
V LINEARITY OFFSET	V31	-13~+13	0	FIX	

SETTING MODE (SECOND STAGE)						
EEPROM ITEMS	**FUNCTION**	**OSD**	**DATA LENGTH**	**INITIAL DATA**	**FIX/ADJ/ AUTO**	**REMARK**
C.CLIP-LVL	CLIP LEVEL CONTRAST CONTROL OF RGB INPUT	F01	0(20H) / 1(40H)	0	FIX	
RGB-CLIP	CLIPPING OF RGB CONTRAST CONTROL	F02	0 (CLIP OFF) / 1(CLIP ON)	0	FIX	
BS	BLACK STRETCH	F03	0(ON) / 1(OFF)	0	FIX	
ABCL	ABCL PROCESSING (ACL PROCESSING)	F04	0(OFF) / 1(ON)	0	FIX	
ABCL-GAIN	ABCL PROCESSING GAIN	F05	0(LOW) / 1(HIGH)	0	FIX	
S-OUT-LVL	AUDIO OUTPUT GAIN CONTROL	F06	0~127	95	FIX	
VIF-G	P-IF DETECTION GAIN OUTPUT	F07	0~7	4	FIX	
SHPG	SHARPNESS GAIN	F08	0(NORMAL) / 1(HIGH)	0	FIX	
SHPG-P	SHARPNESS GAIN PAL	F09	0(NORMAL) / 1(HIGH)	0	FIX	
SHPG-S	SHARPNESS GAIN SECAM	F10	0(NORMAL) / 1(HIGH)	0	FIX	
SHPG-N4	SHARPNESS GAIN N443	F11	0(NORMAL) / 1(HIGH)	0	FIX	
SHPG-N3	SHARPNESS GAIN N358	F12	0(NORMAL) / 1(HIGH)	1	FIX	
YDL	Y SIGNAL DELAY	F13	0~7	5	FIX	
YDL-P	Y SIGNAL DELAY PAL	F14	0~7	5	FIX	
YDL-S	Y SIGNAL DELAY SECAM	F15	0~7	7	FIX	
YDL-N4	Y SIGNAL DELAY N443	F16	0~7	5	FIX	
YDL-N3	Y SIGNAL DELAY N358	F17	0~7	5	FIX	
YDL-AV	Y SIGNAL DELAY AV	F18	0~7	6	FIX	
YDL-AV-P	Y SIGNAL DELAY PAL (AV)	F19	0~7	6	FIX	
YDL-AV-S	Y SIGNAL DELAY SECAM (AV)	F20	0~7	7	FIX	
YDL-AV-N4	Y SIGNAL DELAY N443 (AV)	F21	0~7	6	FIX	
YDL-AV-N3	Y SIGNAL DELAY N358 (AV)	F22	0~7	6	FIX	
YDL-YUV	Y SIGNAL DELAY YUV	F23	0~7	6	FIX	
COL-AV (OFFSET)	COLOUR OFFSET AV	F24	-31~0~+31	+10	FIX	
COL-P (OFFSET)	COLOUR OFFSET PAL	F25	-31~0~+31	0	FIX	
COL-S (OFFSET)	COLOUR OFFSET SECAM	F26	-31~0~+31	+9	FIX	
COL-N4 (OFFSET)	COLOUR OFFSET N443	F27	-31~0~+31	-8	FIX	
COL-N3 (OFFSET)	COLOUR OFFSET N358	F28	-31~0~+31	-7	FIX	
COL-ADJ (OFFSET)	COLOUR OFFSET ADJUST	F29	-31~0~+31	0	FIX	
SHP-AV (OFFSET)	SHARPNESS OFFSET AV	F30	-31~0~+31	+5	*FIX	BUS SETUP
SHP-YUV (OFFSET)	SHARPNESS OFFSET YUV	F31	-31~0~+31	0	FIX	
SHP-P (OFFSET)	SHARPNESS OFFSET PAL	F32	-31~0~+31	0	FIX	
SHP-S (OFFSET)	SHARPNESS OFFSET SECAM	F33	-31~0~+31	-5	FIX	
SHP-N4 (OFFSET)	SHARPNESS OFFSET N443	F34	-31~0~+31	0	FIX	
SHP-N3 (OFFSET)	SHARPNESS OFFSET N358	F35	-31~0~+31	0	FIX	
TINT-AV (OFFSET)	TINT OFFSET AV	F36	-63~0~+63	0	FIX	
TINT-ADJ (OFFSET)	TINT OFFSET ADJUST	F37	-63~0~+63	0	FIX	
TINT-YUV-ADJ (OFFSET)	TINT YUV OFFSET ADJUST	F38	-63~0~+63	0	FIX	
R-R (OFFSET)	R-DRIVE OFFSET WHEN WHITE TEMP IS RED	F39	-63~0~+63	+8	FIX	
B-R (OFFSET)	B-DRIVE OFFSET WHEN WHITE TEMP IS RED	F40	-63~0~+63	-10	FIX	
R-B (OFFSET)	R-DRIVE OFFSET WHEN WHITE TEMP IS BLUE	F41	-63~0~+63	-3	FIX	
B-B (OFFSET)	B-DRIVE OFFSET WHEN WHITE TEMP IS BLUE	F42	-63~0~+63	+13	*FIX	BUS SETUP
TRAP	CENTER VALUE OF CHROMA TRAP	F43	0~3	2	FIX	
TRAP-P	CENTER VALUE OF CHROMA TRAP PAL	F44	0~3	2	FIX	
TRAP-S	CENTER VALUE OF CHROMA TRAP SECAM	F45	0~3	2	FIX	
TRAP-N4	CENTER VALUE OF CHROMA TRAP N443	F46	0~3	2	FIX	
TRAP-N3	CENTER VALUE OF CHROMA TRAP N358	F47	0~3	2	FIX	
1W-TV	VERT SYNC DETECTION MODE FOR AV (1 WINDOW/2 WINDOW)	F48	ACCEPTABLE PERIOD: 0(AUTOMATIC CHANGE) / 1(FIX (WIDE))	0	FIX	

SETTING MODE (SECOND STAGE)						
EEPROM ITEMS	**FUNCTION**	**OSD**	**DATA LENGTH**	**INITIAL DATA**	**FIX/ADJ/ AUTO**	**REMARK**
1W-AV	VERT SYNC DETECTION MODE FOR TV (1 WINDOW/2 WINDOW)	F49	ACCEPTABLE PERIOD: 0(AUTOMATIC CHANGE) / 1(FIX (WIDE))	1	FIX	
V-FREE (NO SYNC)	SET VERTICAL TO FORCED FREE RUN MODE	F50	0(NORMAL) / 1(FREERUN)	0	FIX	
AFC2 (NO SYNC)	HORIZONTAL AFC2 GAIN	F51	0(NORMAL) / 1(DOWN)	0	FIX	
GAMMA	GAMMA CORRECTION QTY	F52	0~3	0	FIX	
BS-D/C	BLACK STRETCH CONTROL LEVEL	F53	0~15	10	FIX	
BS-GAIN	BLACK STRETCH LEVEL	F54	0(NORMAL) / 1(DOWN)	0	FIX	
OM-DET	OVER MODULATION DETECT	F55	0(OFF) / 1(ON)	0	FIX	
SL-TV	SLICE LEVEL OF SYNC DETECTION TV	F56	0~7	2	FIX	
SL-AV	SLICE LEVEL OF SYNC DETECTION AV	F57	0~7	4	FIX	
SL-YUV	SLICE LEVEL OF SYNC DETECTION YUV	F58	0~7	4	FIX	
VD2/VD1/AS/FBP-TV	VD2 & VD1-VERT SYNC DETECT MIN WIDTH MSB & LSB RESPECTIVELY, AS-TV/AV/YUV SWITCH & CH CHANGE, FBP-FLYBACK PULSE SLICE LEVEL (TV)	F59	0~15	6	FIX	
VD2/VD1/AS/FBP-AV	VD2 & VD1-VERT SYNC DETECT MIN WIDTH MSB & LSB RESPECTIVELY, AS-TV/AV/YUV SWITCH & CH CHANGE, FBP-FLYBACK PULSE SLICE LEVEL (AV)	F60	0~15	14	FIX	
VD2/VD1/AS/FBP-YUV	VD2 & VD1-VERT SYNC DETECT MIN WIDTH MSB & LSB RESPECTIVELY, AS-TV/AV/YUV SWITCH & CH CHANGE, FBP-FLYBACK PULSE SLICE LEVEL (YUV)	F61	0~15	14	FIX	
VDL	COLOUR DIFF. INPUT PHASE ADJ	F62	0~3	0	FIX	
UDL	COLOUR DIFF. INPUT PHASE ADJ	F63	0~3	0	FIX	
AUTO-SCM-KIL-TV	SECAM COLOUR KILLER SENSITIV-ITY (TV)	F64	0~3	1	FIX	
SECAM-BGP	INTERNAL SECAM BGP TIMING	F65	0~3	0	FIX	
N45	INHIBIT 50Hz NTSC 4.43	F66	0(NORMAL) / 1(INHIBIT)	0	FIX	
TXT-POS-H (TELE-TEXT)	TELETEXT HORIZONTAL POSITION	F67	0~63	30	FIX	
TXT-POS-V (TELE-TEXT)	TELETEXT VERTICAL POSITION	F68	0~63	34	FIX	
OSD-POS	OSD POSITION	F69	0~127	9	FIX	
CP	CHARGE PUMP	F70	0(FAST TUNING) / 1(MOD-ERATE SPEED TUNING)	1	FIX	
SMALL-SURR (S-CTRL)	SURROUND MODE SELECT	F71	0(EALA EFFECT LARGE) / 1(EALA EFFECT SMALL)	0	FIX	
SUB-BASS (S-CTRL)	SUB BASS CONTROL	F72	0(0dB), 1(-1dB), 2(-2dB), 3(-3dB), 4(0dB), 5(+1dB), 6(+2dB), 7(+3dB)	6	FIX	
SUB-TREB (S-CTRL)	SUB TREBLE CONTROL	F73	0(0dB), 1(-1dB), 2(-2dB), 3(-3dB), 4(0dB), 5(+1dB), 6(+2dB), 7(+3dB)	0	FIX	
AGC-ADJ (S-CTRL)	AGC LEVEL ADJUST	F74	0(AGC Off), 1(300mVrms), 2(400mVrms), 3(500Vrms), 4(600mVrms)	0	*FIX	BUS SETUP
AGC-SW-OFF (NICAM)	NICAM AGC SWITCH OFF	F75	0(DISABLE, FIX GAIN), 1(ENABLE)	1	FIX	
AGC-GAIN-ADJ (NICAM)	NICAM AGC GAIN ADJUST	F76	0~31	16	FIX	
FM-LEVEL-ADJ (NICAM)	FM LEVEL ADJUST	F77	-15~0~+15	0	FIX	
IGR-LEVEL-ADJ (NICAM)	IGR LEVEL ADJUST	F78	-15~0~+15	+1	FIX	
NICAM-BG-LVL-ADJ (NICAM)	NICAM B/G LEVEL ADJUST	F79	-15~0~+15	-2	FIX	

SETTING MODE (SECOND STAGE)						
EEPROM ITEMS	**FUNCTION**	**OSD**	**DATA LENGTH**	**INITIAL DATA**	**FIX/ADJ/ AUTO**	**REMARK**
NICAM-I-LVL-ADJ (NICAM)	NICAM I LEVEL ADJUST	F80	-15~0~+15	+3	FIX	
NICAM-DK-LVL-ADJ (NICAM)	NICAM D/K LEVEL ADJUST	F81	-15~0~+15	-1	FIX	
NICAM-LOW-ERR-LIM (NICAM)	NICAM LOWER ERROR LIMIT	F82	0~255	35	FIX	
NICAM-UPP-ERR-LIM (NICAM)	NICAM UPPER ERROR LIMIT	F83	0~255	70	FIX	
IGR-GAIN-ADJ (IGR)	IGR GAIN ADJUST	F84	-6~0~+7	0	FIX	
FM-ID-SPEED (NICAM)	FM SOUND IDENTIFICATION MODE	F85	0(SLOW) / 1(MEDIUM) / 2(FAST) / 3(OFF)	1	FIX	
NICAM-AUTO-MUTE	NICAM AUTO DETECTION	F86	0(MUTE) / 1(DEMUTE)	0	FIX	
AUTO-SCM-KIL-AV-YUV	SECAM COLOUR KILLER SENSITIV-ITY (AV/YUV)	F87	0~3	1	FIX	
AFC1-GAIN-TV	MSB OF HORIZONTAL AFC GAIN1 (TV)	F88	0(NORMAL) / 1(x2) / 2(x1.5) / 3(3.5)	0	FIX	
AFC1-GAIN-AV	MSB OF HORIZONTAL AFC GAIN1 (AV)	F89	0(NORMAL) / 1(x2) / 2(x1.5) / 3(3.5)	3	FIX	
AFC1-GAIN-YUV	MSB OF HORIZONTAL AFC GAIN1 (YUV)	F90	0(NORMAL) / 1(x2) / 2(x1.5) / 3(3.5)	3	FIX	
CON-REDUCE	CONTRAST (PICTURE LEVEL) CON-TROL	F91	0(0%)~1(25%)~2(50%)	0	FIX	
TAKE-OFF-TV	TAKEOFF/BPF OF CHROMA BPF PRO-CESSING TV	F92	0(BPF) / 1(TAKEOFF)	1	FIX	
TAKE-OFF-AV	TAKEOFF/BPF OF CHROMA BPF PRO-CESSING AV	F93	0(BPF) / 1(TAKEOFF)	0	FIX	
TAKE-OFF-YUV	TAKEOFF/BPF OF CHROMA BPF PRO-CESSING YUV	F94	0(BPF) / 1(TAKEOFF)	0	FIX	
C-ANGLE (103 DEG/ 95 DEG)	CHROMA MODULATION ANGLE	F95	0(103DEG) / 1(95DEG)	1	FIX	
AC-FAIL-WO-BRIGHT	PICTURE BLACK LEVEL (BRIGHT) CONTROL - AC FAILURE	F96	0~255	255	FIX	
FORCED-SCM-KIL-TV	FORCED SECAM COLOUR KILLER SENSITIVITY (TV)	F97	0~3	2	FIX	
FORCED-SCM-KIL-AV-YUV	FORCED SECAM COLOUR KILLER SENSITIVITY (AV/YUV)	F98	0~3	2	FIX	
R-Y ADJ.	COLOUR EDGE IMPROVEMENT	F99	0(DISABLE) / 1(ENABLE)	1	FIX	
V-DEMUTE-DELAY	VIDEO DEMUTE DELAY	F100	0~255	0	*FIX	BUS SETUP
S-DEMUTE-DELAY	SOUND DEMUTE DELAY	F101	0~255	0	*FIX	BUS SETUP
MER	S-BOOSTER FREQ. CHARACTERIS-TIC CONTROL	F102	0~255	70	FIX	
MEL1	S-BOOSTER LEVEL1	F103	0~255	150	FIX	
MEL2	S-BOOSTER LEVEL2	F104	0~255	156	FIX	
MEL3	S-BOOSTER LEVEL3	F105	0~255	163	FIX	
MEL4	S-BOOSTER LEVEL4	F106	0~255	165	FIX	
MEL5	S-BOOSTER LEVEL5	F107	0~255	170	FIX	
MEL6	S-BOOSTER LEVEL6	F108	0~255	180	FIX	
S-ST-POINT	S-BOOSTER START POINT	F109	0~60	21	FIX	
S-SP-POINT	S-BOOSTER STOP POINT	F110	0~60	60	FIX	
S-STEP	S-BOOSTER STEP	F111	0~60	7	FIX	
POW-STORAGE	CONTRAST/BRIGHTNESS INCREASE GRADUALLY	F112	0(DISABLE) / 1(ENABLE)	1	FIX	
S-B-BASS	S-BOOSTER BASS LIMITER (WHEN S-BOOSTER ON)	F113	-30~0~+30	+15	FIX	
S-B-TREB	S-BOOSTER TREBLE LIMITER (WHEN S-BOOSTER ON)	F114	-30~0~+30	+15	FIX	
S-BASS	S-BOOSTER BASS LIMITER (WHEN S-BOOSTER OFF)	F115	-30~0~+30	+30	FIX	
S-TREB	S-BOOSTER TREBLE LIMITER (WHEN S-BOOSTER OFF)	F116	-30~0~+30	+30	FIX	
V-STD-TV		F117	0(DISABLE) / 1(ENABLE)	0	FIX	
V-STD-AV		F118	0(DISABLE) / 1(ENABLE)	0	FIX	
V-STD-YUV		F119	0(DISABLE) / 1(ENABLE)	0	FIX	
WO-Bright-after-WO-TIME		F120	0~255	255	FIX	

SETTING MODE (SECOND STAGE)						
EEPROM ITEMS	**FUNCTION**	**OSD**	**DATA LENGTH**	**INITIAL DATA**	**FIX/ADJ/ AUTO**	**REMARK**
WO-Contrast-after-WO-TIME		F121	0~127	127	FIX	
WO-Bright-before-WO-TIME	WHITE OUT BRIGHT BEFORE WHITE OUT TIME	F122	0~255	255	FIX	
WO-Contrast-before-WO-TIME	WHITE OUT CONTRAST BEFORE WHITE OUT TIME	F123	0~127	127	FIX	
WO-TIME	WHITE OUT	F124	0~31	0	FIX	
A2-ID-Response	SETTING IDENTIFICATION RESPONSE TIME	F125	0(NORMAL) / 1(FAST)	1	FIX	
R-DRI YUV OFFSET	RGB OUTPUT RED GAIN OFFSET (YUV)	F126	-63~0~+63	0	*FIX	BUS SETUP
B-DRI YUV OFFSET	RGB OUTPUT BLUE GAIN OFFSET (YUV)	F127	-63~0~+63	0	*FIX	BUS SETUP
R-CUT YUV OFF-SET	RGB OUTPUT-RED BIAS LEVEL OFF-SET (YUV)	F128	-63~0~+63	0	*FIX	BUS SETUP
G-CUT YUV OFF-SET	RGB OUTPUT-GREEN BIAS LEVEL OFFSET (YUV)	F129	-63~0~+63	0	*FIX	BUS SETUP
B-CUT YUV OFFSET	RGB OUTPUT-BLUE BIAS LEVEL OFF-SET (YUV)	F130	-63~0~+63	0	FIX	
CON YUV OFFSET	SUB-CONTRAS OFFSET (YUV)	F131	-63~0~+63	0	FIX	
BRT YUV OFFSET	SUB-BRIGHT OFFSET (YUV)	F132	-63~0~+63	0	*FIX	BUS SETUP
SHP ANT-ONII OFF-SET	SHARP ANT-ON II OFFSET FOR VIDEO TONE	F133	-31~0~+31	0	FIX	
WAIT MD TIME	SETTING CYCLE PROCESS TIME AT LOW POWER	F134	0~4	2	FIX	
Contrast OFFSET	CONTRAST (PICTURE LEVEL) OFF-SET	F135	-63~0~+63	0	*FIX	BUS SETUP
Bright OFFSET	PICTURE BLACK LEVEL (BRIGHT) OFFSET	F136	-63~0~+63	0	*FIX	BUS SETUP
CR-PEDESTEL-ADJ	Cr SIGNAL LEVEL ADJUSTMENT	F137	0~15	8	FIX	ONLY FOR M62166
CB-PEDESTEL-ADJ	Cb SIGNAL LEVEL ADJUSTMENT	F138	0~15	8	FIX	ONLY FOR M62166
SIF-PAL	SOUND S/N SWITCH FOR PAL	F139	0(DISABLE) / 1(ENABLE)	0	FIX	ONLY FOR M62166
AV2 BRIGHTNESS OFFSET	AV2 BRIGHT OFFSET	F140	-15~0~+15	+7	FIX	

OPTION MODE (FOURTH STAGE)				
EEPROM ITEMS	**OSD**	**DATA LENGTH**	**INITIAL DATA**	**REMARK**
***HOTEL MODE	O01	0 (0FF) / 1 (0N)	0	OPTION SET UP
***HTL-POS	O02	0~99,--	--	OPTION SET UP
***HTL-VOL	O03	0~60,--	--	OPTION SET UP
VIF	O04	0 (38.0) / 1 (38.9)	1	OPTION SET UP
SECAM	O05	0 (DISABLE) / 1 (ENABLE)	1	OPTION SET UP
N443(RF)	O06	0 (DISABLE) / 1 (ENABLE)	1	OPTION SET UP
N358(RF)	O07	0 (DISABLE) / 1 (ENABLE)	1	OPTION SET UP
FORCE-COL	O08	0 (DISABLE) / 1 (ENABLE)	0	OPTION SET UP
S-SYS	O09	1(BG ONLY)~15(ALL)	15	OPTION SET UP
AV	O10	0 (DISABLE) / 1 (ENABLE)	1	OPTION SET UP
AV2	O11	0 (DISABLE) / 1 (ENABLE)	1	OPTION SET UP
YUV	O12	0 (DISABLE) / 1 (ENABLE)	1	OPTION SET UP
S-CTRL	O13	0 (DISABLE) / 1 (ENABLE)	1	OPTION SET UP
NICAM	O14	0 (DISABLE) / 1 (ENABLE)	0	OPTION SET UP
A2	O15	0 (DISABLE) / 1 (ENABLE)	0	OPTION SET UP
TELETEXT	O16	0 (DISABLE) / 1 (ENABLE)	0	OPTION SET UP
BILLINGUAL	O17	0 (DISABLE) / 1 (ENABLE)	0	OPTION SET UP
LANGUAGE	O18	1~255	63	OPTION SET UP
SEARCH-SPEED	O19	1(350)~2(450)~3(550)~4(650)~5(750)	3	OPTION SET UP
R/C-MENU	O20	0 (ENABLE) / 1 (DISABLE)	0	OPTION SET UP
LED-CONT	O21	0 (ONE LED) / 1 (TWO LED)	0	OPTION SET UP
S-BOOSTER	O22	0 (DISABLE) / 1 (ENABLE)	0	OPTION SET UP
SHARP-LOGO	O23	0 (DISABLE) / 1 (ENABLE)	0	OPTION SET UP
YUV BKGD ADJ	O24	0 (DISABLE) / 1 (ENABLE)	0	OPTION SET UP
WHITE BACK	O25	0 (DISABLE) / 1 (ENABLE)	1	OPTION SET UP
BOOSTER	O26	0 (DISABLE) / 1 (ENABLE)	0	OPTION SET UP
MESSAGE	O27	0 (DISABLE) / 1 (ENABLE)	0	OPTION SET UP
MESSAGE SCROLL TIME	O28	Message Display Timing	0	OPTION SET UP
LNA TUNER	O29	0(Alps) / 1(Matsushita)	0	OPTION SET UP
ONE CHIP IC	O30	0(M61260 & M61262) / 1(M61266)	0	OPTION SET UP

*** HOTEL MODE
OPERATION OF HOTEL MODE:
WHEN CHANGE SERVICE DATA O01 TO 1, HOTEL MODE IS ON
WHEN HOTEL MODE IS ON,

1. Max volume data is determined by option setting HTL-VOL (O03)
2. Channel position after POWER ON is determined by option setting HOTEL-POS (O02) (if option setting HOTEL-POS is not set, processing is according to last position data).
3. User data updates of EEPROM regarding the video and audio control is not allowed.
4. Preset mode is disable.
5. CH SETTING menu is not available.

4. ADJ ITEM: BUS SET UP (1 ST & 2ND STAGE SERVICE DATA)

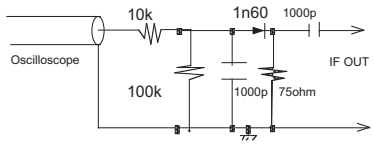
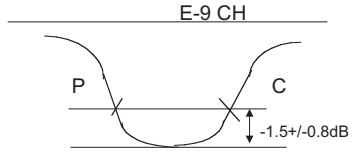
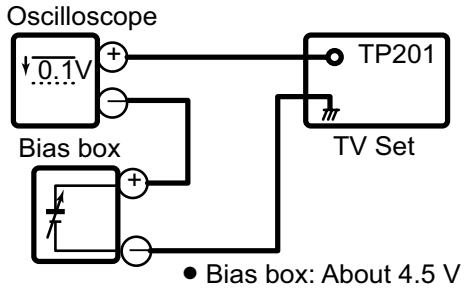
SERVICE ITEMS		
V09	SUB-COLOR YUV	105
F30	SHP-AV	+1
F42	B-B (OFFSET)	16
F74	AGC-ADJ (S-CTRL)	3
F100	V-DEMUTE-DELAY	25
F101	S-DEMUTE-DELAY	40
F126	R-DRI YUV OFFSET	-1
F127	B-DRI YUV OFFSET	-3
F128	R-CUT YUV OFFSET	+14
F129	G-CUT YUV OFFSET	+35
F132	BRT YUV OFFSET	-27
F135	CONTRAST OFFSET	-7
F136	BRIGHT OFFSET	-17

5. ADJ ITEM: OPTION SET UP (4TH STAGE SERVICE DATA)

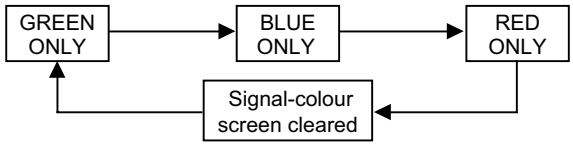
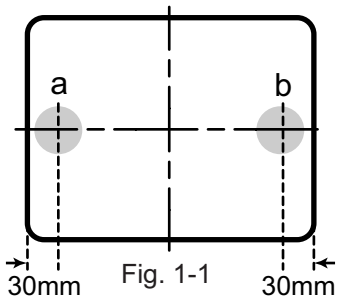
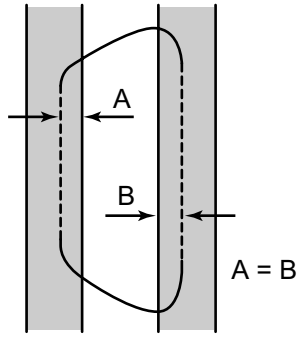
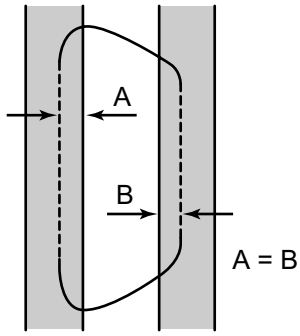
SERVICE ITEMS		
O01	HTL MODE 0 (0FF) / 1 (0N)	0
O02	HTL-POS 0~99,--	--
O03	HTL-VOL 0~60,--	--
O04	VIF 0 (38.0) / 1 (38.9)	1
O05	SECAM 0 (DISABLE) / 1 (ENABLE)	1
O06	N443(RF) 0 (DISABLE) / 1 (ENABLE)	1
O07	N358(RF) 0 (DISABLE) / 1 (ENABLE)	1
O08	FORCE-COL 0 (DISABLE) / 1 (ENABLE)	0
O09	S-SYS 1(BG ONLY)~15(ALL)	15
O10	AV 0 (DISABLE) / 1 (ENABLE)	1
O11	AV2 0 (DISABLE) / 1 (ENABLE)	1
O12	YUV 0 (DISABLE) / 1 (ENABLE)	1
O13	S-CTRL 0 (DISABLE) / 1 (ENABLE)	1
O14	NICAM 0 (DISABLE) / 1 (ENABLE)	0
O15	A2 0 (DISABLE) / 1 (ENABLE)	0
O16	TEXT 0 (DISABLE) / 1 (ENABLE)	0
O17	BIL 0 (DISABLE) / 1 (ENABLE)	0
O18	LANG 1~255	9
O19	SEARCH-SP 1(350)~2(450)~3(550)~4(650)~5(750)	3
O20	R/C MENU 0 (ENABLE) / 1 (DISABLE)	0
O21	LED-CONT 0 (ONE LED) / 1 (TWO LED)	0
O22	S-BOOSTER 0 (DISABLE) / 1 (ENABLE)	0
O23	SHARP-LOGO 0 (DISABLE) / 1 (ENABLE)	0
O24	YUV BKGD ADJ 0 (DISABLE) / 1 (ENABLE)	0
O25	WHITE BACK 0 (DISABLE) / 1 (ENABLE)	0
O26	BOOSTER 0 (DISABLE) / 1 (ENABLE)	0
O27	MESSAGE 0 (DISABLE) / 1 (ENABLE)	0
O28	MESSAGE SCROLL TIME 0 ~ 20	0
O29	LNA TUNER 0(Alps) / 1(Matsushita)	0
O30	ONE CHIP IC 0(M61260 & M61262) / 1(M61266)	0

[2] ADJUSTMENT

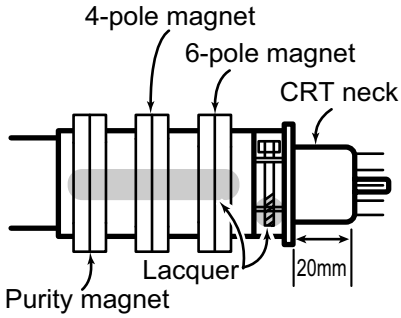
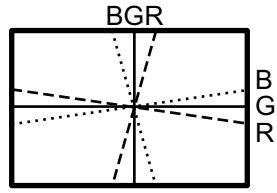
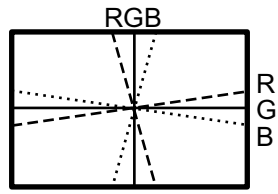
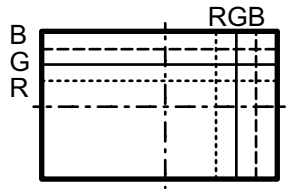
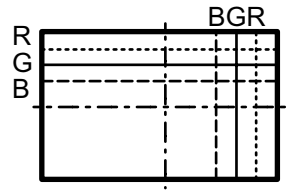
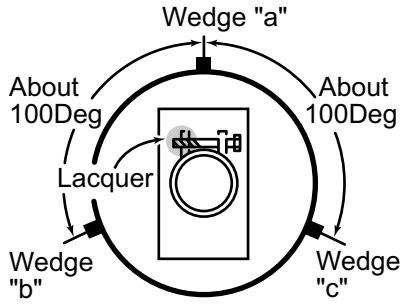
1. PIF ADJUSTMENT

No.	Adjustment point	Adjustment procedure/conditions	Waveform and others
1	**Tuner IFT (PRESET)**	1. Get the tuner ready to receive the CH. E - 9 signal,but with no signal input. Adjust the PLL data. 2. Connect the sweep generator's output cable to the tuner antenna. (RF SWEEP) 3. Adjust the sweep generator's to 80dBμV. 4. Connect the response lead (use LOW IMPEDANCE probe with wave detector ; see Fig.1) to the tuner's IF output terminal. (This terminal must have the probe alone connected). 5. Set the RF AGC to 0 - 6 V with no saturation with the waveform. 6. Adjust the tuner IF coil to obtain the waveform as shown in Fig. 2. **Note: Be sure to keep the tuner cover in position during this adjustment.**	 Fig.1  Fig.2
2	**RF-AGC TAKE OVER POINT ADJUSTMENT (I^2C BUS CONTROL)** **(AUTO & MANUAL ADJ)**	1. Receive "PAL COLOUR BAR" signal. ● Signal Strength: 56 ± 1 dBμV (75 ohm open) 2. Connect the oscilloscope to TP201 (Tuner's AGC Terminal) as shown in Fig. 3-1.  ● Bias box: About 4.5 V Fig. 3-1 3. Call "**V01**" mode in service mode. Adjust the "**V01**" bus data to obtain the Tuner output pin drop **0.1~1.0V** below maximum voltage. 4. Change the antenna input signal to 63~67dBμV, and make sure there is no noise. 5. Turn up the input signal to 90~95 dBμV to be sure that there is no cross modulation beat.	*** for Auto ADJ** 1) Receive "PAL COLOUR BAR" signal. signal strength: 56 ± 1dBμV(75 ohm open) 1) Go to service mode. 2) Go to service data V01, press R/C to operate auto key (Hex C1) and confirm the 'OK' display on the screen. 3) If appear NG, increase data some step and pls repeat step 2. 4) Proceed step 4 & 5 in manual mode.

2. PURITY ADJUSTMENT

No.	Adjustment point	Adjustment procedure/conditions	Waveform and others
1	**PURITY ADJ.**	1. Receive the GREEN-ONLY signal. Adjust the beam current to ~700 μA . 2. Degauss the CRT enough with the degausing coil. Note: Follow the Job Instruction Sheet to adjust the magnetic field. Vertical Bv: +0.045 mT (0.45 gauss) Horizontal Bh: +0.020 mT (0.20 gauss) (Reference: page 3-6) 3. Maintain the purity magnet at the zero magnetic field and keep the static convergence roughly adjusted. 4. Observe the points a, b,as shown in Fig. 1-1 through the microscope. Adjust the landings to A rank requirement. 5. Orient the raster rotation to 0 eastward. 6. Tighten up the deflection coil screws. • Tightening torque: 108 ± 20 N (11 ± 2 kgf) 7. Make sure the CRT corners landing meet the A rank requirements. If not, stick the magnet sheet to correct it. **Note: This adjustment must be done after warming up the unit for 30 minutes or longer with a beam current over 700 μA.** **Note: Set to service mode by remote controller then press factory process R/C RGB key to change to RGB mono colour mode.** * For the following colours press R/C RGB(Hex 7E) key to change. 	 Fig. 1-1  Fig. 1-2 Rank "A" (on the right of the CRT)  Fig. 1-3 Rank "A" (on the left of the CRT) * Press R/C RGB key for 1 second in NORMAL MODE, the colour will change to RGB mono colour mode.

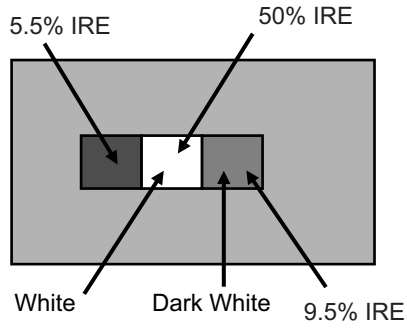
3. CONVERGENCE ADJUSTMENT

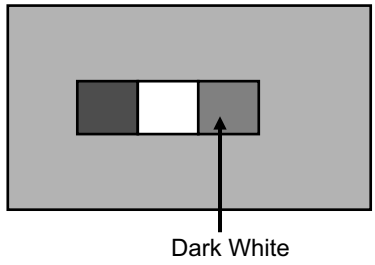
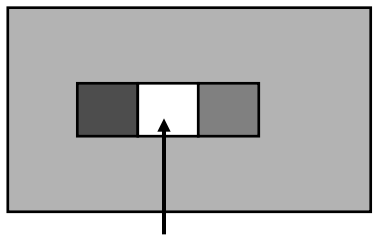
No.	Adjustment point	Adjustment procedure/conditions	Waveform and others
1	**CONVERGENCE ADJ. (To be done after the purity adjustment.)**	1. Receive the "Crosshatch Pattern" signal. 2. Using the remote controller, call NORMAL mode. **Static convergence** 1. Turn the 4-pole magnet to a proper opening angle in order to superpose the blue and red colours. 2. Turn the 6-pole magnet to a proper opening angle in order to superpose the green colour over the blue and red colours. **Dynamic convergence** 1. Adjust the convergence on the fringes of the screen in the following steps. a) Fig. a: Drive the wedge at point "a" and swing the deflection coil upward. b) Fig. b: Drive the wedge at point "b" and "c" and swing the deflection coil downward. c) Fig. c: Drive the "c" wedge deeper and swing the deflection coil rightward. d) Fig. d: Drive the "b" wedge deeper and swing the deflection coil leftward. 2. Fix all the wedges on the CRT and apply glass tape over them. 3. Apply lacquer to the deflection yoke lock screw, magnet unit (purity, 4-pole, 6-pole magnets) and magnet unit lock screw. Finally received the Red-only and Blue-only signals to make sure there is no other colours on the screen.  	 Fig. a  Fig. b  Fig. c  Fig. d 

4. H-VCO, VIF-VCO & S-TRAP fo ADJUSTMENT

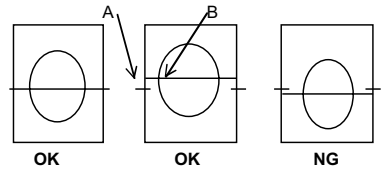
No.	Adjustment point	Adjustment procedure/conditions	Waveform and others
1	**H-VCO ADJ (I²C BUS CONTROL) (AUTO & MANUAL ADJ)**	**(MANUAL ADJ)** 1) In No signal (RASTER) condition. 2) Go to service mode, choose service data **V03**. 3) Connect oscilloscope to **IC801 pin11**, adj **V03** until freq become **15.625 ± 0.15 KHz** **(Auto Adj)** 1) In No signal (RASTER) condition. 2) Go to service mode. 3) Choose service data **V03**, by pressing R/C **Auto (Hex C1)** key, OSD will appear "OK" at screen. 4) If appear "NG" pls repeat step 3.	
2	**VIF-VCO ADJ (I²C BUS CONTROL) (AUTO & MANUAL ADJ)**	**(Manual ADJ)** 1) In No signal (RASTER) condition. 2) Go to service mode, choose service data **V02**. 3) Connect oscilloscope to **IC801 pin2**, adj **V02** until voltage become **2.5 ± 1 V**. **(Auto Adj)** 1) In No signal (RASTER) condition. 2) Go to service mode, choose service data **V02.** 3) Press the R/C **Auto (Hex C1)** key, OSD will appear "OK" at screen. 4) If appear "NG" pls repeat step 3.	This adjustment must be done after aging at least 3 minutes.
3	**S-TRAP fo ADJ (I²C BUS CONTROL) (AUTO & MANUAL ADJ)**	**(Manual ADJ)** 1) In No signal (RASTER) condition. 2) Go to service mode, choose service data **V21**. 3) Connect oscilloscope to **TP 801,** adj **V21** until voltage become **Min** (below 5 V). 4) After that pls adj service data **V20 & V24 same as "V21", V22 to "V21-1", V23 to "V21+2"**. **(Auto Adj)** 1) In No signal (RASTER) condition. 2) Go to service mode, choose service data **V21**. 3) Press the R/C **Auto (Hex C1)** key, OSD will appear "OK" at screen. 4) If appear "NG" pls repeat step 3.	

5. SCREEN, WHITE BALANCE, SUB-BRIGHTNESS & SUB-CONTRAST ADJUSTMENT

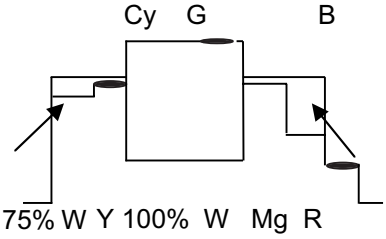
No.	Adjustment point	Adjustment procedure/conditions	Waveform and others
1	**SCREEN ADJUSTMENT (I^2C BUS CONTROL)**	1) In window pattern signal condition. 2) Go to service mode, then select V00. 3) By pressing R/C key **S-Mute (Hex E8), R-D** auto switch to **63, B-D** auto switch to **63, R-C** auto switch to **127, G-C** auto switch to **127, B-C** auto switch to **127, Sub-brightness V06** auto switch to **127**. Y-mute & Vertical off, screen will be in **vertical cut-off** condition. 4) Adjust the Screen so that cut-off line appear in low bright, then judge that whether the cut-off line appear in Red or Green or Blue color, in this condition between R-C & G-C & B-C, fix the data of the color appear in cut-off line and adj the other two cut-off data (Note 1) so that cut-off line color become white. 5) Turn the screen VR of FBT so that cut-off line just **disappear** and use R/C by pressing key **S-Mute (Hex E8)** to **disable** the Y-mute & V-cut so that picture appear in normal mode.	R-CUTOFF (R-C) UP — RC key "1" (HEX 80) R-CUTOFF (R-C) DOWN — RC key "4" (HEX 20) G-CUTOFF (G-C) UP — RC key "2" (HEX 40) G-CUTOFF (G-C) DOWN — RC key "5" (HEX A0) B-CUTOFF (B-C) UP — RC key "3" (HEX C0) B-CUTOFF (B-C) DOWN — RC key "6" (HEX 60) R-DRIVE (R-D) UP — RC key "7" (HEX E0) R-DRIVE (R-D) DOWN — RC key "Flashback" (HEX E4) B-DRIVE (B-D) UP — RC key "8" (HEX 10) B-DRIVE (B-D) DOWN — RC key "0" (HEX 50)
2	**WHITE BALANCE ADJ (to be done after screen adj) (I^2C BUS CONTROL)**	1) **WHITE (HIGH BEAM)** (In Window Pattern Signal) First use Minolta Color Analyzer CA100, let the gun point at **Dark White** position (as drawing attach), Adj **V06** until **LUMINANCE Y** become **5 cd/m2**, then let the gun point at **White** position (as drawing attach), Adj **V04** until **LUMINANCE Y** become: **200 cd/m2**. Adj the **R-D & B-D** until the axis of color temperature become **X=300, Y=310 7500 K** 2) **DARK WHITE (LOW BEAM)** (In Window Pattern Signal) Let the gun point at **Dark White** position, if the color temperature data shift away from the data adjusted in **step 1**, adjust **R-C, G-C & B-C but between them, first color appears in Screen adj item 1)-4 is fixed**, adj the other two so that to obtain the similar axis as above. **** Repeat step 1 & 2 to get a regulated position.**	WINDOW PATTERN SIGNAL  *Note : Signal using W/B Pattern Generator SX-1006 (IWATSU) or equivalent. Window Pattern Signal output level are as above:

No.	Adjustment point	Adjustment procedure/conditions	Waveform and others
3	**SUB-BRIGHTNESS (to be done after screen, white balance adj) (I^2C BUS CONTROL)**	1) In Window Pattern Signal condition. 2) Using Minolta Color Analyzer CA-100, let the gun point at **Dark White** position (as attach drawing), adjust **V06** Bus data until **LUMINANCE Y = 3 ± 0.5 cd/m2**.	WINDOW PATTERN SIGNAL  Dark White
4	**SUB-CONTRAST (to be done after screen, white balance adj, sub-brightness adj) (I^2C BUS CONTROL)**	1) In Window Pattern Signal condition. 2) Using Minolta Color Analyzer CA-100, let the gun point at **White** position (as attach drawing), adjust **V04** Bus data until **LUMINANCE Y = 200 ± 10cd/m2**	WINDOW PATTERN SIGNAL  White
5	**Beam Current Check**	1) Receive the “Monoscope Pattern” signal. 2) Press R/C to set Picture NORMAL condition. 3) Connect the DC miliammeter between TP 603 (+) & TP 602 (-). (Full Scale: 3mA Range) 4) Beam current must be within **1000 ± 100 μA**.	

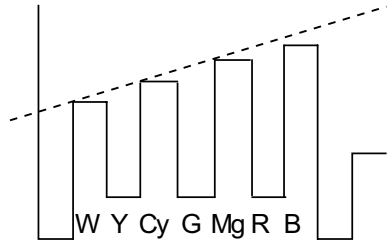
6. HORIZONTAL, VERTICAL, DEFLECTION LOOP and FOCUS ADJUSTMENT

No.	Adjustment point	Adjustment procedure/conditions	Waveform and others
1	**H-SHIFT (I^2C BUS CONTROL) (to be done after purity adj)**	1) Receive Monoscope Pattern Signal (PAL 50 Hz) 2) Choose the service data **V13**. 3) Adjust the **V13** bus data to have a balance position to spec of **A=B** (as attach drawing) 4) If cannot make it to **A=B**, adjust from the best point so that **B** slightly smaller than **A**.	
2	**V-SHIFT (I^2C BUS CONTROL) (to be done after purity adj)**	1) Receive Monoscope Pattern Signal (PAL 50 Hz) 2) Choose the service data **V12**. 3) Adjust **V12** bus data to have a most acceptable vertical position, the monoscope pattern should be **Balance** in vertical position. **Note: B line (Monoscope middle line) must same or nearest higher position to the A mark (Tube middle mark),refer to the attach drawing.**	Figure: 
3	**V-SIZE (I^2C BUS CONTROL) (to be done after purity, V-shift adj)**	1) Receive Monoscope Pattern Signal (PAL 50 Hz) 2) Choose the service data **V11**. 3) Adjust **V11** bus data until the overscan become **10 ± 1.5 %** **Caution1: Pls aging TV more than 10 minutes before adjustment.** **Caution2: for H-shift & V-shift & V-size adj, after adj pls switch to Monoscope pattern signal (NTSC 60 Hz) to confirm all position are the same.**	
4	**SUB-SHARPNESS**	1) Confirm Service data **V08** is **43**.	
5	**Focus**	1) Receive the "Monoscope Pattern" signal. 2) Press R/C to set Picture NORMAL condition. 3) Adjust the focus control to get the best focusing.	

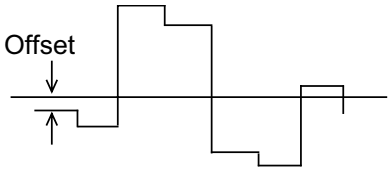
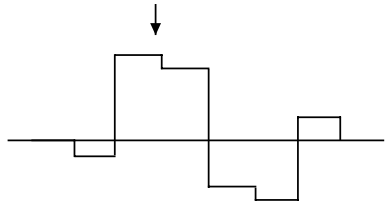
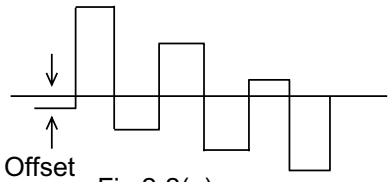
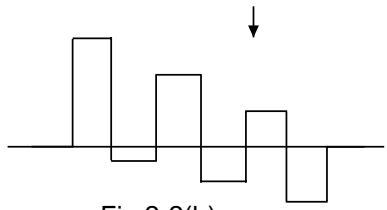
7. PAL CHROMA ADJUSTMENT

No.	Adjustment point	Adjustment procedure/conditions	Waveform and others
1	**SUB COLOUR (I^2C BUS CONTROL) (to be done after sub-picture, sub-tint adj)**	1) Receive the “PAL Colour Bar” signal. 2) Press R/C to set Picture Normal condition. 3) Connect the oscilloscope to R-Amp Transistor Base**(TP 851)**. Range : 100mV/Div (AC) (Using 10:1 Probe) Sweep Time : 10 μ sec/Div 4) Using the R/C call **V05** in SERVICE mode. Adjust **V05** bus data, so that the 75% White & Red portions of PAL Colour Bar be at the **same level** shown as Fig 1-1. 5) Clear the SERVICE mode.	 Fig. 1-1

8. NTSC CHROMA ADJUSTMET

No.	Adjustment point	Adjustment procedure/conditions	Waveform and others
1	**SUB-TINT (I²C BUS CONTROL)**	1) Receive the "NTSC3.58 Colour Bar" signal thru AV in. 2) Connect the oscilloscope to B-Amp Transistor Base **(TP853)**. ● Range : 100mV/Div. (AC)(Use Probe 10:1) ● Sweep time : 10 µsec/Div. 3) In Service mode, go to **V07**, press **R/C Y-mute(Hex E4)** or **FLASHBACK Key.** 4) Call the "**V07**" data in service mode. Adjust the "**V07**" bus data to obtain the waveform shown as Fig. 1-1. 5) Disable **Y-Mute** by pressing **key(Hex E4)** or **FLASHBACK,** then clear the SERVICE mode.	 Fig. 1-1

9. SECAM CHROMA ADJUSTMENT

No.	Adjustment point	Adjustment procedure/conditions	Waveform and others
1	**SECAM BLACK LEVEL R-Y/B-Y (I²C BUS CONTROL)**	1) Receive “SECAM COLOUR BAR” signal. 2) In the service mode, select service data **V14**. 3) Connect oscilloscope to **TP 801**. ● Range : 20mV/Div. (AC)(Use Probe 10:1) ● Sweep time : 20 µsec/Div. 4) Adjust the **V14** so that the offset of R-Y is minimum, shown in **Fig 2-1(b)**, it means adjust the offset of between No signal line and Signal line to minimum. 5) In the service mode, select service data **V15**. 6) Connect oscilloscope to **TP 801**. ● Range : 20mV/Div. (AC)(Use Probe 10:1) ● Sweep time : 20 µsec/Div. 7) Adjust the **V15** so that the offset of B-Y to minimum, shown in **Fig 2-2(b)**, it means adjust the offset of between No signal line and Signal line to minimum.	 Fig 2-1(a)  Fig 2-1(b)  Fig 2-2(a)  Fig 2-2(b)

10. PROTECTOR OPERATION CHECKING

No.	Adjustment point	Adjustment procedure/conditions	Waveform and others
1	**BEAM PROTECTOR**	1) Receive "Monoscope Pattern" signal. 2) Set CONTRAST MAX. 3) Set BRIGHT MAX. 4) During the Collector & Emitter of **Q853/4/5** short, make sure the protector ON and switch to standby mode.	* Select one of Q853/4/5 to do each short.
2	**H, V PROTECTOR**	1) Receive "Monoscope Pattern" signal. 2) Connect output of Bias Box to **D602** cathode (C602 positive). 3) Set voltage of Bias Box to **18V** and make sure the protector is not working. 4) Set voltage of Bias Box to **27V** , and make sure the protector is working.	
3	**OTHER PROTECTOR**	1) Once finish rectified Electrolytic Capacitor short testing in +B line, check all possible damaged components on +B line. (Use random selected set for inspection)	

11. A/V INPUT, OUTPUT & COMPONENT IN CHECKING

No.	Adjustment point	Adjustment procedure/conditions	Waveform and others
1	**VIDEO AND AUDIO OUTPUT CHECK**	1) Receive the "PAL Colour Bar" signal (100% White Colour Bar, Sound 400 Hz 100% Mod.) 2) Terminate the Video output with a 75 ohm impedance. Make sure the output is as specified **(1.0 Vp-p ±3 dB)**. 3) Terminate the Audio output with a 10K ohm impedance. Make sure the O/P is as specified **(1.5 Vp-p ±3 dB)**.	
2	**VIDEO AND AUDIO INPUT CHECK**	1) Using the TV/VIDEO key on the remote controller, make sure that the modes change in order of TV, AV1, AV2 & TV again and the video & audio output are according to the input terminal for each mode.	
		1) Using the TV/AV key on the remote controller, make sure that the modes change in order of TV, AV, & TV again and the video & audio output are according to the input terminal for each mode. If connect input to Front and Rear AV terminal, input terminal of Front AV will be selected.	
3	**COMPONENT IN CHECK**	1) Connect YUV & Audio signal to Component In terminal and Audio terminal. 2) Using the TV/VIDEO key on the remote controller, press it until the modes change to COMPONENT, confirm output is appear.	

12. FUNCTION OPERATION CHECKING (VIDEO AND AUDIO)

No.	Adjustment point	Adjustment procedure/conditions	Waveform and others
1	**CONTRAST key**	1) Receive "Monoscope Pattern" signal. 2) Set MENU, then go into PICTURE mode to select CONTRAST. 3) Press Volume Up/Down key to check whether the CONTRAST effect is OK or not.	
2	**COLOUR key**	1) Receive "Colour Bar" signal. 2) Set MENU, then go into PICTURE mode to select COLOUR. 3) Press Volume Up/Down key to check whether the COLOUR effect is OK or not.	
3	**BRIGHTNESS key**	1) Receive "Monoscope Pattern" signal. 2) Set MENU, then go into PICTURE mode to select BRIGHTNESS. 3) Press Volume Up/Down key to check whether the BRIGHTNESS effect is OK or not.	
4	**TINT key**	1) Receive the "NTSC Colour Bar" signal thru AV in. 2) Set MENU, then go into PICTURE mode to select TINT. 3) Press Volume Up/Down key to check TINT, UP for GREEN direction and DOWN for PURPLE direction whether is OK or not.	
5	**SHARPNESS Key**	1) Receive "Monoscope Pattern" signal. 2) Set MENU, then go into PICTURE mode to select SHARPNESS. 3) Press Volume Up/Down key to check whether the SHARPNESS effect is OK or not.	
6	**CH DISPLAY COLOUR**	1) All Ch (1~99) will have an OSD display of the channel number in green colour under AFT ON condition.	
7	**NORMAL Key**	1) Once in PICTURE or SOUND Menu, and the NORMAL key is pressed, all the settings will be preset to normal setting accordingly. (Normal setting value for every mode) **PICTURE MENU** CONTRAST : MAX COLOUR : CENTER BRIGHTNESS : CENTER TINT : CENTER SHARPNESS : CENTER WHITE TEMP : CENTER **SOUND MENU** SURROUND : OFF TREBLE : CENTER BASS : CENTER BALANCE : CENTER	In NORMAL Menu, when press NORMAL key, will appear NORMAL OSD and all setting PICTURE, SOUND functions set to NORMAL.
8	**WHITE TEMP**	1) Receive "Monoscope Pattern" signal. 2) Set MENU, then go into PICTURE mode to select WHITE TEMP. 3) Press Volume Up/Down key to check WHITE TEMP function The back ground will change to (shift right) bluish and (shift left) reddish.	

No.	Adjustment point	Adjustment procedure/conditions	Waveform and others
9	**COLOUR SYSTEM**	1) Receive the "PAL COLOUR BAR" signal, press MENU, choose CH-SETTING to select COLOR modes except PAL, check the COLOUR is not working properly. Then, select the "PAL" mode. Check again its colour so that it is working properly. 2) Receive "SECAM COLOUR BAR" signal, press MENU, choose CH-SETTING to select COLOR modes except SECAM, check the COLOUR is not working properly. Then, select the "SECAM" mode. Check again its colour so that it is working properly. 3) Receive "NTSC 4.43" signal, press MENU, choose CH-SETTING to select COLOR modes except N443, check the COLOUR is not working properly. Then, select the N443 mode. Check again its colour so that it is working properly. 4) Receive "NTSC 3.58" signal, press MENU, choose CH-SETTING to select COLOR modes except N358, check the COLOUR is not working properly. Then, select the N358 mode. Check again its colour so that it is working properly.	
10	**SURROUND**	1) Receive "music" sound signal. 2) Set MENU, then go into SOUND MENU to select SURROUND. 3) Press VOLUME UP/DOWN key to check SURROUND I, II and OFF effect.	
11	**TREBLE**	1) Receive "music" sound signal. 2) Set MENU, then go into SOUND MENU to select TREBLE. 3) Press VOLUME UP/DOWN key to check whether the TREBLE effect is OK or not.	
12	**BASS**	1) Receive "music" sound signal. 2) Set MENU, then go into SOUND MENU to select BASS. 3) Press VOLUME UP/DOWN key to check whether the BASS effect is OK or not.	
13	**BALANCE**	1) Receive mono-tone signal. 2) Set MENU, then go into SOUND MENU to select BALANCE. 3) Press VOLUME UP/DOWN key to check whether the left to right BALANCE effect is OK or not.	
14	**NOISE MUTE CHECKING**	1) Receive "PAL COLOUR BAR" signal. 2) Turn up the volume control to maximum, make sure the sound is heard from the speakers. Then put the unit in no signal state. 3) Check the sound mute is effective. 4) Finally turn sound level of CTV to minimum.	

No.	Adjustment point	Adjustment procedure/conditions	Waveform and others
15	**SOUND SYSTEM**	1) Receive "PAL-D/K" signal, press MENU, choose CH-SETTING then go into SOUND mode to select B/G, I, M. Check the sound output is not working properly. Select D/K and check the sound output to make sure it is working properly. 2) Receive "PAL-I" signal, press MENU, choose CH-SETTING then go into SOUND mode to select B/G, D/K, M. Check the sound output is not working properly. Select I and check the sound output to make sure it is working properly. 3) Receive "PAL-B/G" signal, press MENU, choose CH-SETTING then go into SOUND mode to select I, D/K, M. Check the sound output is not working properly. Select B/G and check the sound output to make sure it is working properly. 4) Receive "NTSC-M" signal, press MENU, choose CH-SETTING then go into SOUND mode to select B/G, I, D/K. Check the sound output is not working properly. Select M and check the sound output to make sure it is working properly.	
16	**OSD LANGUAGE QUANTITY CHECK**	1) Check OSD LANGUAGE quantity and type for respect model. QUANTITY: 2 — ENGLISH: O — RUSSIAN: O	

13. HEADPHONE JACK CHECKING

No.	Adjustment point	Adjustment procedure/conditions	Waveform and others
1	**HEADPHONE OUTPUT CHECKING**	1) Receive PAL COLOUR BAR with SOUND 400Hz, 100% MODULATION (±50kHz Dev). 2) Maximum volume, and check the headphone output with 400Hz sound and no sound output from speaker.	

14. SHOCK TEST CHECKING

No.	Adjustment point	Adjustment procedure/conditions	Waveform and others
1	**SHOCK TEST**	1) Hit at the top of TV set for two time. 2) Check TV set not damage and TV operation operate correctly.	

15. ROM CORRECTION CHECKING

<table>
<tr><th>No.</th><th>Adjustment point</th><th>Adjustment procedure/conditions</th><th>Waveform and others</th></tr>
<tr><td>1</td><td>ROM CORRECTION CHECK</td><td>1) Go to SERVICE mode, press "MENU" key until the SERVICE mode display as in Figure 1 appeared.*

2) Check the ROM CORRECTION status by monitoring the screen, follow the model's setting.

<table>
<tr><th>MODEL</th><th>Micon Version</th><th>CHK1</th><th>CHK2</th><th>FIGURE</th></tr>
<tr><td>21J-FV1RU</td><td>RH-IXB224WJZZ(Software Ver. 0.92)</td><td>ACT</td><td>NO</td><td></td></tr>
</table>
CHK1: If AC_DET turn ON & Protect timing is ended, Port refresh & IIC Bus are prohibited.</td><td>* OTHERS:

INFO

SLV1 0 0
SLV2 0 0
SLV4 0 0
SLV7 0 0

MICON : ZZ CHK1 : ACT
SOFT : 0.92 CHK2 : NO

Figure 1</td></tr>
</table>

Please do ROM-CORRECTION.

The data is as below.

MCU :	**M37150MA-074FP**									
Soft Ver .	**V0.92**									
ROMCORRECT1 ...		**1. If AC_DET turn ON & Protect timing is ended, Port refiesh & IIC Bus are prohibited.**								
ROMCORRECT2 ...										
EEPROM Data										
Slave	**Sub**	**Data**								**Comment**
$A2	$76	A0								ROMCORRECT1 Permission
$A2	$77	91								ROMCORRECT1 Address(H)
$A2	$78	F7								ROMCORRECT1 Address(L)
$A2	$79	19								ROMCORRECT1 Code length
$A2	$7A	A3								ROMCORRECT1 Checksum
$A2	$7B	FF								ROMCORRECT2 Permission
$A2	$7C	FF								ROMCORRECT2 Address(H)
$A2	$7D	FF								ROMCORRECT2 Address(L)
$A2	$7E	FF								ROMCORRECT2 Code length
$A2	$7F	FF								ROMCORRECT2 Checksum
$A2	$80-87	37	0B	0D	B7	08	0A	A5	56	ROMCORRECT1 Data
$A2	$88-$8F	D0	06	B7	C2	03	4C	C0	91	ROMCORRECT1 Data
$A2	$90-$97	F7	C4	03	4C	FD	91	4C	A4	ROMCORRECT1 Data
$A2	$98-$9F	92	FF	FF	FF	FF	FF	FF	FF	ROMCORRECT1 Data
$A2	$A0-$A7	FF	FF	FF	FF	FF	FF	FF	FF	ROMCORRECT2 Data
$A2	$A8-$AF	FF	FF	FF	FF	FF	FF	FF	FF	ROMCORRECT2 Data
$A2	$B0-$B7	FF	FF	FF	FF	FF	FF	FF	FF	ROMCORRECT2 Data
$A2	$B8-$BF	FF	FF	FF	FF	FF	FF	FF	FF	ROMCORRECT2 Data

NOTE: Add ROM Correction for countermeasure for data change when AGING and AC POWER OFF. There is posibility of changing background color if no implement ROM Correction when AGING and AC power OFF.

CHAPTER 4. MEMORY MAP

[1] MEMORY MAP

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
00	EEPROM INITIALIZATION JUDGEMENT BYTE-0								7B	00-FF							* depend on lxcode, current this model ix IXB224 so set as 7B 72 72 74.
01	EEPROM INITIALIZATION JUDGEMENT BYTE-1								72	00-FF							
02	EEPROM INITIALIZATION JUDGEMENT BYTE-2								72	00-FF							
03	EEPROM INITIALIZATION JUDGEMENT BYTE-3								74	00-FF							
04	ROM VERSION								00	00-FF							
05	SOFTWARE VERSION (HIGH BYTE)								00	00-FF							*depend on final release version. If version 0.92 so it will become 00 & 5C
06	SOFTWARE VERSION (LOW BYTE)								5C	00-FF							
07																	
08	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 0
09	TUNING FREQUENCY (HIGH BYTE)									00-FF							
0A	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 1
0B	TUNING FREQUENCY (HIGH BYTE)									00-FF							
0C	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 2
0D	TUNING FREQUENCY (HIGH BYTE)									00-FF							
0E	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 3
0F	TUNING FREQUENCY (HIGH BYTE)									00-FF							
10	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 4
11	TUNING FREQUENCY (HIGH BYTE)									00-FF							
12	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 5
13	TUNING FREQUENCY (HIGH BYTE)									00-FF							
14	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 6
15	TUNING FREQUENCY (HIGH BYTE)									00-FF							
16	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 7
17	TUNING FREQUENCY (HIGH BYTE)									00-FF							
18	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 8
19	TUNING FREQUENCY (HIGH BYTE)									00-FF							
1A	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 9
1B	TUNING FREQUENCY (HIGH BYTE)									00-FF							
1C	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 10
1D	TUNING FREQUENCY (HIGH BYTE)									00-FF							
1E	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 11
1F	TUNING FREQUENCY (HIGH BYTE)									00-FF							
20	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 12
21	TUNING FREQUENCY (HIGH BYTE)									00-FF							
22	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 13
23	TUNING FREQUENCY (HIGH BYTE)									00-FF							
24	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 14
25	TUNING FREQUENCY (HIGH BYTE)									00-FF							
26	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 15
27	TUNING FREQUENCY (HIGH BYTE)									00-FF							
28	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 16
29	TUNING FREQUENCY (HIGH BYTE)									00-FF							
2A	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 17
2B	TUNING FREQUENCY (HIGH BYTE)									00-FF							
2C	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 18
2D	TUNING FREQUENCY (HIGH BYTE)									00-FF							
2E	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 19
2F	TUNING FREQUENCY (HIGH BYTE)									00-FF							
30	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 20
31	TUNING FREQUENCY (HIGH BYTE)									00-FF							
32	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 21
33	TUNING FREQUENCY (HIGH BYTE)									00-FF							
34	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 22
35	TUNING FREQUENCY (HIGH BYTE)									00-FF							
36	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 23
37	TUNING FREQUENCY (HIGH BYTE)									00-FF							
38	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 24
39	TUNING FREQUENCY (HIGH BYTE)									00-FF							
3A	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 25
3B	TUNING FREQUENCY (HIGH BYTE)									00-FF							
3C	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 26
3D	TUNING FREQUENCY (HIGH BYTE)									00-FF							
3E	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 27
3F	TUNING FREQUENCY (HIGH BYTE)									00-FF							
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
40	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 28
41	TUNING FREQUENCY (HIGH BYTE)									00-FF							
42	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 29
43	TUNING FREQUENCY (HIGH BYTE)									00-FF							
44	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 30
45	TUNING FREQUENCY (HIGH BYTE)									00-FF							
46	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 31
47	TUNING FREQUENCY (HIGH BYTE)									00-FF							
48	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 32
49	TUNING FREQUENCY (HIGH BYTE)									00-FF							
4A	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 33
4B	TUNING FREQUENCY (HIGH BYTE)									00-FF							
4C	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 34
4D	TUNING FREQUENCY (HIGH BYTE)									00-FF							
4E	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 35
4F	TUNING FREQUENCY (HIGH BYTE)									00-FF							
50	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 36
51	TUNING FREQUENCY (HIGH BYTE)									00-FF							
52	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 37
53	TUNING FREQUENCY (HIGH BYTE)									00-FF							
54	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 38
55	TUNING FREQUENCY (HIGH BYTE)									00-FF							
56	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 39
57	TUNING FREQUENCY (HIGH BYTE)									00-FF							
58	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 40
59	TUNING FREQUENCY (HIGH BYTE)									00-FF							
5A	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 41
5B	TUNING FREQUENCY (HIGH BYTE)									00-FF							
5C	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 42
5D	TUNING FREQUENCY (HIGH BYTE)									00-FF							
5E	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 43
5F	TUNING FREQUENCY (HIGH BYTE)									00-FF							
60	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 44
61	TUNING FREQUENCY (HIGH BYTE)									00-FF							
62	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 45
63	TUNING FREQUENCY (HIGH BYTE)									00-FF							
64	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 46
65	TUNING FREQUENCY (HIGH BYTE)									00-FF							
66	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 47
67	TUNING FREQUENCY (HIGH BYTE)									00-FF							
68	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 48
69	TUNING FREQUENCY (HIGH BYTE)									00-FF							
6A	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 49
6B	TUNING FREQUENCY (HIGH BYTE)									00-FF							
6C	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 50
6D	TUNING FREQUENCY (HIGH BYTE)									00-FF							
6E	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 51
6F	TUNING FREQUENCY (HIGH BYTE)									00-FF							
70	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 52
71	TUNING FREQUENCY (HIGH BYTE)									00-FF							
72	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 53
73	TUNING FREQUENCY (HIGH BYTE)									00-FF							
74	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 54
75	TUNING FREQUENCY (HIGH BYTE)									00-FF							
76	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 55
77	TUNING FREQUENCY (HIGH BYTE)									00-FF							
78	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 56
79	TUNING FREQUENCY (HIGH BYTE)									00-FF							
7A	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 57
7B	TUNING FREQUENCY (HIGH BYTE)									00-FF							
7C	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 58
7D	TUNING FREQUENCY (HIGH BYTE)									00-FF							
7E	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 59
7F	TUNING FREQUENCY (HIGH BYTE)									00-FF							
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF)

ADDRESS	DATA							MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
80	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 60
81	TUNING FREQUENCY (HIGH BYTE)									00-FF							
82	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 61
83	TUNING FREQUENCY (HIGH BYTE)									00-FF							
84	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 62
85	TUNING FREQUENCY (HIGH BYTE)									00-FF							
86	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 63
87	TUNING FREQUENCY (HIGH BYTE)									00-FF							
88	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 64
89	TUNING FREQUENCY (HIGH BYTE)									00-FF							
8A	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 65
8B	TUNING FREQUENCY (HIGH BYTE)									00-FF							
8C	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 66
8D	TUNING FREQUENCY (HIGH BYTE)									00-FF							
8E	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 67
8F	TUNING FREQUENCY (HIGH BYTE)									00-FF							
90	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 68
91	TUNING FREQUENCY (HIGH BYTE)									00-FF							
92	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 69
93	TUNING FREQUENCY (HIGH BYTE)									00-FF							
94	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 70
95	TUNING FREQUENCY (HIGH BYTE)									00-FF							
96	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 71
97	TUNING FREQUENCY (HIGH BYTE)									00-FF							
98	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 72
99	TUNING FREQUENCY (HIGH BYTE)									00-FF							
9A	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 73
9B	TUNING FREQUENCY (HIGH BYTE)									00-FF							
9C	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 74
9D	TUNING FREQUENCY (HIGH BYTE)									00-FF							
9E	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 75
9F	TUNING FREQUENCY (HIGH BYTE)									00-FF							
A0	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 76
A1	TUNING FREQUENCY (HIGH BYTE)									00-FF							
A2	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 77
A3	TUNING FREQUENCY (HIGH BYTE)									00-FF							
A4	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 78
A5	TUNING FREQUENCY (HIGH BYTE)									00-FF							
A6	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 79
A7	TUNING FREQUENCY (HIGH BYTE)									00-FF							
A8	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 80
A9	TUNING FREQUENCY (HIGH BYTE)									00-FF							
AA	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 81
AB	TUNING FREQUENCY (HIGH BYTE)									00-FF							
AC	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 82
AD	TUNING FREQUENCY (HIGH BYTE)									00-FF							
AE	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 83
AF	TUNING FREQUENCY (HIGH BYTE)									00-FF							
B0	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 84
B1	TUNING FREQUENCY (HIGH BYTE)									00-FF							
B2	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 85
B3	TUNING FREQUENCY (HIGH BYTE)									00-FF							
B4	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 86
B5	TUNING FREQUENCY (HIGH BYTE)									00-FF							
B6	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 87
B7	TUNING FREQUENCY (HIGH BYTE)									00-FF							
B8	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 88
B9	TUNING FREQUENCY (HIGH BYTE)									00-FF							
BA	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 89
BB	TUNING FREQUENCY (HIGH BYTE)									00-FF							
BC	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 90
BD	TUNING FREQUENCY (HIGH BYTE)									00-FF							
BE	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 91
BF	TUNING FREQUENCY (HIGH BYTE)									00-FF							
MODEL										MODEL							
LETTER NO.										LETTER NO.							

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF)

ADDRESS	DATA							MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	REMARK
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	
C0	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 92
C1	TUNING FREQUENCY (HIGH BYTE)									00-FF							
C2	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 93
C3	TUNING FREQUENCY (HIGH BYTE)									00-FF							
C4	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 94
C5	TUNING FREQUENCY (HIGH BYTE)									00-FF							
C6	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 95
C7	TUNING FREQUENCY (HIGH BYTE)									00-FF							
C8	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 96
C9	TUNING FREQUENCY (HIGH BYTE)									00-FF							
CA	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 97
CB	TUNING FREQUENCY (HIGH BYTE)									00-FF							
CC	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 98
CD	TUNING FREQUENCY (HIGH BYTE)									00-FF							
CE	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 99
CF	TUNING FREQUENCY (HIGH BYTE)									00-FF							
D0		FAVORITE CHANNEL 1							0A	00-65							POS 10
D1		FAVORITE CHANNEL 2							14	00-65							POS 20
D2		FAVORITE CHANNEL 3							1E	00-65							POS 30
D3		FAVORITE CHANNEL 4							28	00-65							POS 40
D4			LAST CONTRAST						3C	00-3C							
D5			LAST COLOUR						1E	00-3C							
D6			LAST BRIGHTNESS						1E	00-3C							
D7			LAST TINT						1E	00-3C							
D8			LAST SHARPNESS						1E	00-3C							
D9							LAST WHITE TEMP.		01	00-02							
DA							LAST SURROUND MODE		00	00-02							
DB			LAST TREBLE						1E	00-3C							
DC			LAST BASS						1E	00-3C							
DD			LAST BALANCE						1E	00-3C							
DE						Message Screen	Message Display	**S-Booster**	01	00-01							(1) Add Message Display ON/OFF setting.
DF																	
E0	POS 7	POS 6	POS 5	POS4	POS 3	POS 2	POS 1	POS 0	FF	00-FF							1= AFT ON, 0=AFT OFF
E1	POS15	POS14	POS13	POS12	POS11	POS10	POS 9	POS 8	FF	00-FF							
E2	POS23	POS22	POS21	POS20	POS19	POS18	POS17	POS16	FF	00-FF							
E3	POS31	POS30	POS29	POS28	POS27	POS26	POS25	POS24	FF	00-FF							
E4	POS39	POS38	POS37	POS36	POS35	POS34	POS33	POS32	FF	00-FF							
E5	POS47	POS46	POS45	POS44	POS43	POS42	POS41	POS40	FF	00-FF							
E6	POS55	POS54	POS53	POS52	POS51	POS50	POS49	POS48	FF	00-FF							
E7	POS63	POS62	POS61	POS60	POS59	POS58	POS57	POS56	FF	00-FF							
E8	POS71	POS70	POS69	POS68	POS67	POS66	POS65	POS64	FF	00-FF							
E9	POS79	POS78	POS77	POS76	POS75	POS74	POS73	POS72	FF	00-FF							
EA	POS87	POS86	POS85	POS84	POS83	POS82	POS81	POS80	FF	00-FF							
EB	POS95	POS94	POS93	POS92	POS91	POS90	POS89	POS88	FF	00-FF							
EC					POS99	POS98	POS97	POS96	FF	00-0F							
ED																	
EE	Blue Back	1/2 digit	TEXT			LANGUAGE			48	00-FF							
EF			LAST VOLUME						00	00-3C							
F0	POS 7	POS 6	POS 5	POS4	POS 3	POS 2	POS 1	POS 0	01	00-FF							1= SKIP ON, 0=SKIP OFF
F1	POS15	POS14	POS13	POS12	POS11	POS10	POS 9	POS 8	00	00-FF							
F2	POS23	POS22	POS21	POS20	POS19	POS18	POS17	POS16	00	00-FF							
F3	POS31	POS30	POS29	POS28	POS27	POS26	POS25	POS24	00	00-FF							
F4	POS39	POS38	POS37	POS36	POS35	POS34	POS33	POS32	00	00-FF							
F5	POS47	POS46	POS45	POS44	POS43	POS42	POS41	POS40	00	00-FF							
F6	POS55	POS54	POS53	POS52	POS51	POS50	POS49	POS48	00	00-FF							
F7	POS63	POS62	POS61	POS60	POS59	POS58	POS57	POS56	00	00-FF							
F8	POS71	POS70	POS69	POS68	POS67	POS66	POS65	POS64	00	00-FF							
F9	POS79	POS78	POS77	POS76	POS75	POS74	POS73	POS72	00	00-FF							
FA	POS87	POS86	POS85	POS84	POS83	POS82	POS81	POS80	00	00-FF							
FB	POS95	POS94	POS93	POS92	POS91	POS90	POS89	POS88	00	00-FF							
FC					POS99	POS98	POS97	POS96	00	00-0F							
FD	POWER								AA	AA(On), 55(Off)							
FE	ON TIMER VOLUME								FF	00-3C, FF							
FF	ON TIMER CHANNEL								FF	00-65, FF							
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
100	ANT-BOOSTER (POS0)		S-SYSTEM (POS0)			C-SYSTEM (POS0)			00	00-34							
101	ANT-BOOSTER (POS1)		S-SYSTEM (POS1)			C-SYSTEM (POS1)			00	00-34							S-SYSTEM
102	ANT-BOOSTER (POS2)		S-SYSTEM (POS2)			C-SYSTEM (POS2)			00	00-34							0: B/G
103	ANT-BOOSTER (POS3)		S-SYSTEM (POS3)			C-SYSTEM (POS3)			00	00-34							1: I
104	ANT-BOOSTER (POS4)		S-SYSTEM (POS4)			C-SYSTEM (POS4)			00	00-34							2: D/K
105	ANT-BOOSTER (POS5)		S-SYSTEM (POS5)			C-SYSTEM (POS5)			00	00-34							3: M
106	ANT-BOOSTER (POS6)		S-SYSTEM (POS6)			C-SYSTEM (POS6)			00	00-34							
107	ANT-BOOSTER (POS7)		S-SYSTEM (POS7)			C-SYSTEM POS7)			00	00-34							C-SYSTEM
108	ANT-BOOSTER (POS8)		S-SYSTEM (POS8)			C-SYSTEM (POS8)			00	00-34							0: AUTO
109	ANT-BOOSTER (POS9)		S-SYSTEM (POS9)			C-SYSTEM (POS9)			00	00-34							1: PAL
10A	ANT-BOOSTER (POS10)		S-SYSTEM (POS10)			C-SYSTEM (POS10)			00	00-34							2:SECAM
10B	ANT-BOOSTER (POS11)		S-SYSTEM (POS11)			C-SYSTEM (POS11)			00	00-34							3: N443
10C	ANT-BOOSTER (POS12)		S-SYSTEM (POS12)			C-SYSTEM (POS12)			00	00-34							4:N358
10D	ANT-BOOSTER (POS13)		S-SYSTEM (POS13)			C-SYSTEM (POS13)			00	00-34							
10E	ANT-BOOSTER (POS14)		S-SYSTEM (POS14)			C-SYSTEM (POS14)			00	00-34							ANT-BOOSTER
10F	ANT-BOOSTER (POS15)		S-SYSTEM (POS15)			C-SYSTEM (POS15)			00	00-34							0: OFF
110	ANT-BOOSTER (POS16)		S-SYSTEM (POS16)			C-SYSTEM (POS16)			00	00-34							1: ON I
111	ANT-BOOSTER (POS17)		S-SYSTEM (POS17)			C-SYSTEM (POS17)			00	00-34							2: ON II
112	ANT-BOOSTER (POS18)		S-SYSTEM (POS18)			C-SYSTEM (POS18)			00	00-34							
113	ANT-BOOSTER (POS19)		S-SYSTEM (POS19)			C-SYSTEM (POS19)			00	00-34							
114	ANT-BOOSTER (POS20)		S-SYSTEM (POS20)			C-SYSTEM (POS20)			00	00-34							
115	ANT-BOOSTER (POS21)		S-SYSTEM (POS21)			C-SYSTEM (POS21)			00	00-34							
116	ANT-BOOSTER (POS22)		S-SYSTEM (POS22)			C-SYSTEM (POS22)			00	00-34							
117	ANT-BOOSTER (POS23)		S-SYSTEM (POS23)			C-SYSTEM (POS23)			00	00-34							
118	ANT-BOOSTER (POS24)		S-SYSTEM (POS24)			C-SYSTEM (POS24)			00	00-34							
119	ANT-BOOSTER (POS25)		S-SYSTEM (POS25)			C-SYSTEM (POS25)			00	00-34							
11A	ANT-BOOSTER (POS26)		S-SYSTEM (POS26)			C-SYSTEM (POS26)			00	00-34							
11B	ANT-BOOSTER (POS27)		S-SYSTEM (POS27)			C-SYSTEM (POS27)			00	00-34							
11C	ANT-BOOSTER (POS28)		S-SYSTEM (POS28)			C-SYSTEM (POS28)			00	00-34							
11D	ANT-BOOSTER (POS29)		S-SYSTEM (POS29)			C-SYSTEM (POS29)			00	00-34							
11E	ANT-BOOSTER (POS30)		S-SYSTEM (POS30)			C-SYSTEM (POS30)			00	00-34							
11F	ANT-BOOSTER (POS31)		S-SYSTEM (POS31)			C-SYSTEM (POS31)			00	00-34							
120	ANT-BOOSTER (POS32)		S-SYSTEM (POS32)			C-SYSTEM (POS32)			00	00-34							
121	ANT-BOOSTER (POS33)		S-SYSTEM (POS33)			C-SYSTEM (POS33)			00	00-34							
122	ANT-BOOSTER (POS34)		S-SYSTEM (POS34)			C-SYSTEM (POS34)			00	00-34							
123	ANT-BOOSTER (POS35)		S-SYSTEM (POS35)			C-SYSTEM (POS35)			00	00-34							
124	ANT-BOOSTER (POS36)		S-SYSTEM (POS36)			C-SYSTEM (POS36)			00	00-34							
125	ANT-BOOSTER (POS37)		S-SYSTEM (POS37)			C-SYSTEM (POS37)			00	00-34							
126	ANT-BOOSTER (POS38)		S-SYSTEM (POS38)			C-SYSTEM (POS38)			00	00-34							
127	ANT-BOOSTER (POS39)		S-SYSTEM (POS39)			C-SYSTEM (POS39)			00	00-34							
128	ANT-BOOSTER (POS40)		S-SYSTEM (POS40)			C-SYSTEM (POS40)			00	00-34							
129	ANT-BOOSTER (POS41)		S-SYSTEM (POS41)			C-SYSTEM (POS41)			00	00-34							
12A	ANT-BOOSTER (POS42)		S-SYSTEM (POS42)			C-SYSTEM (POS42)			00	00-34							
12B	ANT-BOOSTER (POS43)		S-SYSTEM (POS43)			C-SYSTEM (POS43)			00	00-34							
12C	ANT-BOOSTER (POS44)		S-SYSTEM (POS44)			C-SYSTEM (POS44)			00	00-34							
12D	ANT-BOOSTER (POS45)		S-SYSTEM (POS45)			C-SYSTEM (POS45)			00	00-34							
12E	ANT-BOOSTER (POS46)		S-SYSTEM (POS46)			C-SYSTEM (POS46)			00	00-34							
12F	ANT-BOOSTER (POS47)		S-SYSTEM (POS47)			C-SYSTEM (POS47)			00	00-34							
130	ANT-BOOSTER (POS48)		S-SYSTEM (POS48)			C-SYSTEM (POS48)			00	00-34							
131	ANT-BOOSTER (POS49)		S-SYSTEM (POS49)			C-SYSTEM (POS49)			00	00-34							
132	ANT-BOOSTER (POS50)		S-SYSTEM (POS50)			C-SYSTEM (POS50)			00	00-34							
133	ANT-BOOSTER (POS51)		S-SYSTEM (POS51)			C-SYSTEM (POS51)			00	00-34							
134	ANT-BOOSTER (POS52)		S-SYSTEM (POS52)			C-SYSTEM (POS52)			00	00-34							
135	ANT-BOOSTER (POS53)		S-SYSTEM (POS53)			C-SYSTEM (POS53)			00	00-34							
136	ANT-BOOSTER (POS54)		S-SYSTEM (POS54)			C-SYSTEM (POS54)			00	00-34							
137	ANT-BOOSTER (POS55)		S-SYSTEM (POS55)			C-SYSTEM (POS55)			00	00-34							
138	ANT-BOOSTER (POS56)		S-SYSTEM (POS56)			C-SYSTEM (POS56)			00	00-34							
139	ANT-BOOSTER (POS57)		S-SYSTEM (POS57)			C-SYSTEM (POS57)			00	00-34							
13A	ANT-BOOSTER (POS58)		S-SYSTEM (POS58)			C-SYSTEM (POS58)			00	00-34							
13B	ANT-BOOSTER (POS59)		S-SYSTEM (POS59)			C-SYSTEM (POS59)			00	00-34							
13C	ANT-BOOSTER (POS60)		S-SYSTEM (POS60)			C-SYSTEM (POS60)			00	00-34							
13D	ANT-BOOSTER (POS61)		S-SYSTEM (POS61)			C-SYSTEM (POS61)			00	00-34							
13E	ANT-BOOSTER (POS62)		S-SYSTEM (POS62)			C-SYSTEM (POS62)			00	00-34							
13F	ANT-BOOSTER (POS63)		S-SYSTEM (POS63)			C-SYSTEM (POS63)			00	00-34							
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
140	ANT-BOOSTER (POS64)		S-SYSTEM (POS64)			C-SYSTEM (POS64)			00	00-9C							
141	ANT-BOOSTER (POS65)		S-SYSTEM (POS65)			C-SYSTEM (POS65)			00	00-34							
142	ANT-BOOSTER (POS66)		S-SYSTEM (POS66)			C-SYSTEM (POS66)			00	00-34							
143	ANT-BOOSTER (POS67)		S-SYSTEM (POS67)			C-SYSTEM (POS67)			00	00-34							
144	ANT-BOOSTER (POS68)		S-SYSTEM (POS68)			C-SYSTEM (POS68)			00	00-34							
145	ANT-BOOSTER (POS69)		S-SYSTEM (POS69)			C-SYSTEM (POS69)			00	00-34							
146	ANT-BOOSTER (POS70)		S-SYSTEM (POS70)			C-SYSTEM (POS70)			00	00-34							
147	ANT-BOOSTER (POS71)		S-SYSTEM (POS71)			C-SYSTEM POS71)			00	00-34							
148	ANT-BOOSTER (POS72)		S-SYSTEM (POS72)			C-SYSTEM (POS72)			00	00-34							
149	ANT-BOOSTER (POS73)		S-SYSTEM (POS73)			C-SYSTEM (POS73)			00	00-34							
14A	ANT-BOOSTER (POS74)		S-SYSTEM (POS74)			C-SYSTEM (POS74)			00	00-34							
14B	ANT-BOOSTER (POS75)		S-SYSTEM (POS75)			C-SYSTEM (POS75)			00	00-34							
14C	ANT-BOOSTER (POS76)		S-SYSTEM (POS76)			C-SYSTEM (POS76)			00	00-34							
14D	ANT-BOOSTER (POS77)		S-SYSTEM (POS77)			C-SYSTEM (POS77)			00	00-34							
14E	ANT-BOOSTER (POS78)		S-SYSTEM (POS78)			C-SYSTEM (POS78)			00	00-34							
14F	ANT-BOOSTER (POS79)		S-SYSTEM (POS79)			C-SYSTEM (POS79)			00	00-34							
150	ANT-BOOSTER (POS80)		S-SYSTEM (POS80)			C-SYSTEM (POS80)			00	00-34							
151	ANT-BOOSTER (POS81)		S-SYSTEM (POS81)			C-SYSTEM (POS81)			00	00-34							
152	ANT-BOOSTER (POS82)		S-SYSTEM (POS82)			C-SYSTEM (POS82)			00	00-34							
153	ANT-BOOSTER (POS83)		S-SYSTEM (POS83)			C-SYSTEM (POS83)			00	00-34							
154	ANT-BOOSTER (POS84)		S-SYSTEM (POS84)			C-SYSTEM (POS84)			00	00-34							
155	ANT-BOOSTER (POS85)		S-SYSTEM (POS85)			C-SYSTEM (POS85)			00	00-34							
156	ANT-BOOSTER (POS86)		S-SYSTEM (POS86)			C-SYSTEM (POS86)			00	00-34							
157	ANT-BOOSTER (POS87)		S-SYSTEM (POS87)			C-SYSTEM (POS87)			00	00-34							
158	ANT-BOOSTER (POS88)		S-SYSTEM (POS88)			C-SYSTEM (POS88)			00	00-34							
159	ANT-BOOSTER (POS89)		S-SYSTEM (POS89)			C-SYSTEM (POS89)			00	00-34							
15A	ANT-BOOSTER (POS90)		S-SYSTEM (POS90)			C-SYSTEM (POS90)			00	00-34							
15B	ANT-BOOSTER (POS91)		S-SYSTEM (POS91)			C-SYSTEM (POS91)			00	00-34							
15C	ANT-BOOSTER (POS92)		S-SYSTEM (POS92)			C-SYSTEM (POS92)			00	00-34							
15D	ANT-BOOSTER (POS93)		S-SYSTEM (POS93)			C-SYSTEM (POS93)			00	00-34							
15E	ANT-BOOSTER (POS94)		S-SYSTEM (POS94)			C-SYSTEM (POS94)			00	00-34							
15F	ANT-BOOSTER (POS95)		S-SYSTEM (POS95)			C-SYSTEM (POS95)			00	00-34							
160	ANT-BOOSTER (POS96)		S-SYSTEM (POS96)			C-SYSTEM (POS96)			00	00-34							
161	ANT-BOOSTER (POS97)		S-SYSTEM (POS97)			C-SYSTEM (POS97)			00	00-34							
162	ANT-BOOSTER (POS98)		S-SYSTEM (POS98)			C-SYSTEM (POS98)			00	00-34							
163	ANT-BOOSTER (POS99)		S-SYSTEM (POS99)			C-SYSTEM (POS99)			00	00-34							
164		C-SYSTEM (AV2)				C-SYSTEM (AV1)			00	00-44							
165	SLV1 (HIGH)								00	00-FF							
166	SLV1 (LOW)								00	00-FF							
167	SLV2 (HIGH)								00	00-FF							
168	SLV2 (LOW)								00	00-FF							
169	SLV3 (HIGH)								00	00-FF							
16A	SLV3 (LOW)								00	00-FF							
16B	SLV4 (HIGH)								00	00-FF							
16C	SLV4 (LOW)								00	00-FF							
16D	SLV5 (HIGH)								00	00-FF							
16E	SLV5 (LOW)								00	00-FF							
16F	SLV6 (HIGH)								00	00-FF							
170	SLV6 (LOW)								00	00-FF							
171	SLV7 (HIGH)								00	00-FF							
172	SLV7 (LOW)								00	00-FF							
173								TV/AV	00	0(TV), 1(AV1), 2(AV2)							
174		LAST CHANNEL POSITION							01	00-63							
175	FLASH BACK POSITION								01	00-FF							
176	ROM CORRECTION-1 ID									00-FF							Valid (A0)
177	ROM CORRECTION-1 HIGH BYTE ADDRESS									00-FF							
178	ROM CORRECTION-1 LOW BYTE ADDRESS									00-FF							
179	ROM CORRECTION-1 DATA LENGTH									00-FF							
17A	ROM CORRECTION-1 CHECKSUM									00-FF							
17B	ROM CORRECTION-2 ID									00-FF							Valid (A0)
17C	ROM CORRECTION-2 HIGH BYTE ADDRESS									00-FF							
17D	ROM CORRECTION-2 LOW BYTE ADDRESS									00-FF							
17E	ROM CORRECTION-2 DATA LENGTH									00-FF							
17F	ROM CORRECTION-2 CHECKSUM									00-FF							
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
180	ROM CORRECTION-1 CODE									00-FF							
181	ROM CORRECTION-1 CODE									00-FF							
182	ROM CORRECTION-1 CODE									00-FF							
183	ROM CORRECTION-1 CODE									00-FF							
184	ROM CORRECTION-1 CODE									00-FF							
185	ROM CORRECTION-1 CODE									00-FF							
186	ROM CORRECTION-1 CODE									00-FF							
187	ROM CORRECTION-1 CODE									00-FF							
188	ROM CORRECTION-1 CODE									00-FF							
189	ROM CORRECTION-1 CODE									00-FF							
18A	ROM CORRECTION-1 CODE									00-FF							
18B	ROM CORRECTION-1 CODE									00-FF							
18C	ROM CORRECTION-1 CODE									00-FF							
18D	ROM CORRECTION-1 CODE									00-FF							
18E	ROM CORRECTION-1 CODE									00-FF							
18F	ROM CORRECTION-1 CODE									00-FF							
190	ROM CORRECTION-1 CODE									00-FF							
191	ROM CORRECTION-1 CODE									00-FF							
192	ROM CORRECTION-1 CODE									00-FF							
193	ROM CORRECTION-1 CODE									00-FF							
194	ROM CORRECTION-1 CODE									00-FF							
195	ROM CORRECTION-1 CODE									00-FF							
196	ROM CORRECTION-1 CODE									00-FF							
197	ROM CORRECTION-1 CODE									00-FF							
198	ROM CORRECTION-1 CODE									00-FF							
199	ROM CORRECTION-1 CODE									00-FF							
19A	ROM CORRECTION-1 CODE									00-FF							
19B	ROM CORRECTION-1 CODE									00-FF							
19C	ROM CORRECTION-1 CODE									00-FF							
19D	ROM CORRECTION-1 CODE									00-FF							
19E	ROM CORRECTION-1 CODE									00-FF							
19F	ROM CORRECTION-1 CODE									00-FF							
1A0	ROM CORRECTION-2 CODE									00-FF							
1A1	ROM CORRECTION-2 CODE									00-FF							
1A2	ROM CORRECTION-2 CODE									00-FF							
1A3	ROM CORRECTION-2 CODE									00-FF							
1A4	ROM CORRECTION-2 CODE									00-FF							
1A5	ROM CORRECTION-2 CODE									00-FF							
1A6	ROM CORRECTION-2 CODE									00-FF							
1A7	ROM CORRECTION-2 CODE									00-FF							
1A8	ROM CORRECTION-2 CODE									00-FF							
1A9	ROM CORRECTION-2 CODE									00-FF							
1AA	ROM CORRECTION-2 CODE									00-FF							
1AB	ROM CORRECTION-2 CODE									00-FF							
1AC	ROM CORRECTION-2 CODE									00-FF							
1AD	ROM CORRECTION-2 CODE									00-FF							
1AE	ROM CORRECTION-2 CODE									00-FF							
1AF	ROM CORRECTION-2 CODE									00-FF							
1B0	ROM CORRECTION-2 CODE									00-FF							
1B1	ROM CORRECTION-2 CODE									00-FF							
1B2	ROM CORRECTION-2 CODE									00-FF							
1B3	ROM CORRECTION-2 CODE									00-FF							
1B4	ROM CORRECTION-2 CODE									00-FF							
1B5	ROM CORRECTION-2 CODE									00-FF							
1B6	ROM CORRECTION-2 CODE									00-FF							
1B7	ROM CORRECTION-2 CODE									00-FF							
1B8	ROM CORRECTION-2 CODE									00-FF							
1B9	ROM CORRECTION-2 CODE									00-FF							
1BA	ROM CORRECTION-2 CODE									00-FF							
1BB	ROM CORRECTION-2 CODE									00-FF							
1BC	ROM CORRECTION-2 CODE									00-FF							
1BD	ROM CORRECTION-2 CODE									00-FF							
1BE	ROM CORRECTION-2 CODE									00-FF							
1BF	ROM CORRECTION-2 CODE									00-FF							

MODEL							MODEL						
LETTER NO.							LETTER NO.						

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
1C0	Message Favorite Three - Character 01								FF	00-FF							
1C1	Message Favorite Three - Character 02								FF	00-FF							
1C2	Message Favorite Three - Character 03								FF	00-FF							
1C3	Message Favorite Three - Character 04								FF	00-FF							
1C4	Message Favorite Three - Character 05								FF	00-FF							
1C5	Message Favorite Three - Character 06								FF	00-FF							
1C6	Message Favorite Three - Character 07								FF	00-FF							
1C7	Message Favorite Three - Character 08								FF	00-FF							
1C8	Message Favorite Three - Character 09								FF	00-FF							
1C9	Message Favorite Three - Character 10								FF	00-FF							
1CA	Message Favorite Three - Character 11								FF	00-FF							
1CB	Message Favorite Three - Character 12								FF	00-FF							
1CC	Message Favorite Three - Character 13								FF	00-FF							
1CD	Message Favorite Three - Character 14								FF	00-FF							
1CE	Message Favorite Three - Character 15								FF	0-FF							
1CF	Message Favorite Three - Character 16								FF	0-FF							
1D0	Message Favorite Three - Character 17								FF	0-FF							
1D1	Message Favorite Three - Character 18								FF	0-FF							
1D2	Message Favorite Three - Character 19								FF	0-FF							
1D3	Message Favorite Three - Character 20								FF	0-FF							
1D4	Message Favorite Three - Character 21								FF	0-FF							
1D5	Message Favorite Three - Character 22								FF	0-FF							
1D6	Message Favorite Three - Character 23								FF	0-FF							
1D7	Message Favorite Three - Character 24								FF	0-FF							
1D8	Message Favorite Three - Character 25								FF	0-FF							
1D9	Message Favorite Three - Character 26								FF	0-FF							
1DA	Message Favorite Three - Character 27								FF	0-FF							
1DB	Message Favorite Three - Character 28								FF	0-FF							
1DC	Message Favorite Three - Character 29								FF	0-FF							
1DD	Message Favorite Three - Character 30								FF	0-FF							
1DE	Message Favorite Three - Character 31								FF	0-FF							1) Add new area for Message Data for Favorite Message Three.
1DF	Message Favorite Three - Character 32								FF	0-FF							
1E0	Message Favorite Three - Character 33								FF	0-FF							
1E1	Message Favorite Three - Character 34								FF	0-FF							
1E2	Message Favorite Three - Character 35								FF	0-FF							
1E3	Message Favorite Three - Character 36								FF	0-FF							
1E4	Message Favorite Three - Character 37								FF	0-FF							
1E5	Message Favorite Three - Character 38								FF	0-FF							
1E6	Message Favorite Three - Character 39								FF	0-FF							
1E7	Message Favorite Three - Character 40								FF	0-FF							
1E8	Message Favorite Three - Character 41								FF	0-FF							
1E9	Message Favorite Three - Character 42								FF	0-FF							
1EA	Message Favorite Three - Character 43								FF	0-FF							
1EB	Message Favorite Three - Character 44								FF	0-FF							
1EC	Message Favorite Three - Character 45								FF	0-FF							
1ED	Message Favorite Three - Character 46								FF	0-FF							
1EE	Message Favorite Three - Character 47								FF	0-FF							
1EF	Message Favorite Three - Character 48								FF	0-FF							
1F0	Message Favorite Three - Character 49								FF	0-FF							
1F1	Message Favorite Three - Character 50								FF	0-FF							
1F2	Message Favorite Three - Character 51								FF	0-FF							
1F3	Message Favorite Three - Character 52								FF	0-FF							
1F4	Message Favorite Three - Character 53								FF	0-FF							
1F5	Message Favorite Three - Character 54								FF	0-FF							
1F6	Message Favorite Three - Character 55								FF	0-FF							
1F7	Message Favorite Three - Character 56								FF	0-FF							
1F8	Message Favorite Three - Character 57								FF	0-FF							
1F9	Message Favorite Three - Character 58								FF	0-FF							
1FA	Message Favorite Three - Character 59								FF	0-FF							
1FB	Message Favorite Three - Character 60								FF	0-FF							
1FC	Message Favorite Three - Character 61								FF	0-FF							
1FD	Message Favorite Three - Character 62								FF	0-FF							
1FE	Message Favorite Three - Character 63								FF	0-FF							
1FF	Message Favorite Three - Character 64								FF	0-FF							
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
200		R-DRIVE (V00)							3F	00-7F							
201		B-DRIVE (V00)							3F	00-7F							
202	R-CUTOFF (V00)								7F	00-FF							
203	G-CUTOFF (V00)								7F	00-FF							
204	B-CUTOFF (V00)								7F	00-FF							
205		RF-AGC (V01)							32	00-7F							
206			VIF-VCO (V02)						1F	00-3F							
207						H-VCO (V03)			03	00-07							
208		SUB CONTRAST (V04)							64	00-7F							
209		SUB COLOUR (V05)							3F	00-7F							
20A	SUB BRIGHTNESS (V06)								7F	00-FF							
20B		SUB TINT (V07)							3F	00-7F							
20C			SUB SHARPNESS (V08)						2B	00-3F							
20D		SUB-COLOUR-YUV (V09)							5A	00-7F							
20E		SUB-TINT-YUV (V10)							3F	00-7F							
20F			V-SIZE-50Hz (V11)						26	00-3F							
210						V-SHIFT-50Hz (V12)			03	00-07							
211				H-SHIFT-50Hz (V13)					09	00-1F							
212			SECAM BR (V14)						25	00-3F							
213			SECAM BB (V15)						16	00-3F							
214			SUB VOLUME (V16)						3C	00-3C							
215			V-SIZE-60Hz (V17)						1F	00-3E							
216					V-SHIFT-60Hz (V18)				06	00-0E							
217				H-SHIFT-60Hz (V19)					11	00-1E							
218					S-TRAP-BG (V20)				07	00-0F							
219					S-TRAP-I (V21)				07	00-0F							
21A					S-TRAP-DK (V22)				07	00-0F							
21B					S-TRAP-M (V23)				07	00-0F							
21C					S-TRAP-574 (V24)				07	00-0F							
21D		R-DRIVE YUV (V25)							3F	00-7F							(1) New item V25
21E		B-DRIVE YUV (V25)							3F	00-7F							(1) New item V25
21F	R-CUTOFF YUV (V25)								7F	00-FF							(1) New item V25
220	G-CUTOFF YUV (V25)								7F	00-FF							(1) New item V25
221	B-CUTOFF YUV (V25)								7F	00-FF							(1) New item V25
222		SUB CONTRAST YUV (V26)							64	00-7F							(1) New item V26
223	SUB BRIGHTNESS YUV (V27)								7F	00-FF							(1) New item V27
224	VS-CORRECT (V28)								20	00-3F							
225	VS-CORRECT OFFSET (V29)								0D	00-1A							
226	V-LINEARITY (V30)								20	00-3F							
227	V-LINEARITY OFFSET (V31)								0D	00-1A							
228																	
229																	
22A																	
22B																	
22C		S-OUT-LEVEL (F06)							5F	00-7F							
22D						VIF-G (F07)			04	00-07							
22E						YDL (F13)			05	00-07							
22F						YDL-PAL (F14)			05	00-07							
230						YDL-SECAM (F15)			07	00-07							
231						YDL-N443 (F16)			05	00-07							
232						YDL-N358 (F17)			05	00-07							
233						YDL-AV (F18)			06	00-07							
234						YDL-AV-PAL (F19)			06	00-07							
235						YDL-AV-SECAM (F20)			07	00-07							
236						YDL-AV-N443 (F21)			06	00-07							
237						YDL-AV-N358 (F22)			06	00-07							
238						YDL-YUV (F23)			06	00-07							
239			COLOUR-AV (F24)						29	00-3E							
23A			COLOUR-PAL (F25)						1F	00-3E							
23B			COLOUR-SECAM (F26)						28	00-3E							
23C			COLOUR-N443 (F27)						17	00-3E							
23D			COLOUR-N358 (F28)						18	00-3E							
23E			COLUR-ADJ (F29)						1F	00-3E							
23F			SHARPNESS-AV (F30)						24	00-3E							
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
240			SHARPNESS-YUV (F31)						1F	00-3E							
241			SHARPNESS-PAL (F32)						1F	00-3E							
242			SHARPNESS-SECAM (F33)						1A	00-3E							
243			SHARPNESS-N443 (F34)						1F	00-3E							
244			SHARPNESS-N358 (F35)						1F	00-3E							
245			TINT-AV (F36)						3F	00-7E							
246			TINT-ADJ (F37)						3F	00-7E							
247			TINT-YUV-ADJ (F38)						3F	00-7E							
248			R-R DRIVE (F39)						47	00-7E							
249			B-R DRIVE (F40)						35	00-7E							
24A			R-B DRIVE (F41)						3C	00-7E							
24B			B-B DRIVE (F42)						4C	00-7E							
24C							TRAP (F43)		02	00-03							
24D							TRAP-PAL (F44)		02	00-03							
24E							TRAP-SECAM (F45)		02	00-03							
24F							TRAP-N443 (F46)		02	00-03							
250							TRAP-N358 (F47)		02	00-03							
251							GAMMA (F52)		00	00-03							
252					BS-D/C (F53)				0A	00-0F							
253						SL-TV (F56)			02	00-07							
254						SL-AV (F57)			04	00-07							
255						SL-YUV (F58)			04	00-07							
256					VD2/VD1/AS/FBP-TV (F59)				06	00-0F							
257					VD2/VD1/AS/FBP-AV (F60)				0E	00-0F							
258					VD2/VD1/AS/FBP-YUV (F61)				0E	00-0F							
259							VDL (F62)		00	00-03							
25A							UDL (F63)		00	00-03							
25B							AUTO-SCM-KIL-TV (F64)		01	00-03							
25C							SECAM-BGP (F65)		00	00-03							
25D			TEXT POS-H (F67)						1E	00-3F							(1) No teletext function
25E			TEXT POS-V (F68)						22	00-3F							
25F			OSD-POS (F69)						09	00-7F							
260						SUB-BASS (F72)			06	00-07							
261						SUB-TREBLE (F73)			00	00-07							
262						AGC-ADJ (F74)			00	00-04							
263				AGC-GAIN-ADJUST (F76)					10	00-1F							
264				FM-LEVEL-ADJUST (F77)					0F	00-1E							
265				IGR-LEVEL-ADJUST (F78)					10	00-1E							
266				NICAM-BG-LEVEL-ADJUST (F79)					0D	00-1E							
267				NICAM-I-LEVEL-ADJUST (F80)					12	00-1E							
268				NICAM-DK-LEVEL-ADJUST (F81)					0E	00-1E							
269	NICAM-LOWER-ERROR-LIMIT (F82)								23	00-FF							
26A	NICAM-UPPER-ERROR-LIMIT (F83)								46	00-FF							
26B					IGR-GAIN-ADJUST (F84)				06	00-0D							
26C							FM-ID-SPEED (F85)		01	00-03							
26D							AUTO-SCM-KIL-AV-YUV (F87)		01	00-03							
26E							AFC1-GAIN-TV (F88)		00	00-03							
26F							AFC1-GAIN-AV (F89)		03	00-03							
270							AFC1-GAIN-YUV (F90)		03	00-03							
271							CON-REDUCE (F91)		00	00-02							1. Keep but no use
272	AC-FAIL-WO-BRIGHT (F96)								FF	00-FF							
273							FORCED-SCM-KIL-TV (F97)		02	00-03							
274							FORCED-SCM-KIL-AV-YUV (F98)		02	00-03							
275	VIDEO-DEMUTE-DELAY (F100)								00	00-FF							
276	SOUND-DEMUTE-DELAY (F101)								00	00-FF							
277	MEL1 (F102)								46	00-FF							
278	MEL1 (F103)								96	00-FF							
279	MEL1 (F104)								9C	00-FF							
27A	MEL1 (F105)								A3	00-FF							
27B	MEL1 (F106)								A5	00-FF							
27C	MEL1 (F107)								AA	00-FF							
27D	MEL6 (F108)								B4	1-FF							
27E			S-Start Point (F109)						15	00-3C							
27F			S-Stop Point (F110)						3C	00-3C							
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
280	S-Step (F111)								07	00-3C							
281	S-B-BASS (F113)								2D	00-3C							
282	S-B-TREB (F114)								2D	00-3C							
283	S-BASS (F115)								3C	00-3C							
284	S-TREB (F116)								3C	00-3C							
285	WO-Bright-After-WO-TIME (F120)								FF	00-FF							
286		WO-Contrast-After-WO-TIME (F121)							7F	00-7F							1) New item
287	WO-Bright-Before-WO-TIME(F122)								FF	00-FF							1) New item
288		WO-Contrast-Before-WO-TIME (F123)							7F	00-7F							1) New item
289				WO-TIME (F124)					00	00-1F							1) New item
28A		R-DRI YUV OFFSET (F126)							3F	00-7E							1) New item
28B		B-DRI YUV OFFSET (F127)							3F	00-7E							1) New item
28C	R-CUT OFF YUV OFFSET (F128)								3F	00-7E							1) New item
28D	G-CUT OFF YUV OFFSET (F129)								3F	00-7E							1) New item
28E	B-CUT OFF YUV OFFSET (F130)								3F	00-7E							1) New item
28F		CONTRAST YUV OFFSET (F131)							3F	00-7E							1) New item
290	BRIGHT YUV OFFSET (F132)								3F	00-7E							1) New item
291	SHP ANT ON II OFFSET (F133)								1F	00-3E							1) New item
292	WAIT MODE TIME (F134)								02	00-04							
293	CONTRAST OFFSET (F135)								3F	00-7E							
294	BRIGHT OFFSET (F136)								3F	00-7E							
295	CR-PEDESTEL ADJ (F137)								08	00-0F							
296	CB-PEDESTEL ADJ (F138)								08	00-0F							
297	AV-BRIGHTNESS OFFSET (F140)								16	00-1E							
298																	
299																	
29A																	
29B																	
29C																	
29D																	
29E																	
29F																	
2A0				ABCL-G (F05)	ABCL (F04)	BS OFF (F03)	RGB CLIP (F02)	C.CLIP-LVL (F01)	00	00-1F							
2A1				SHP-G-N3 (F12)	SHP-G-N4 (F11)	SHP-G-SCM (F10)	SHP-G-PAL (F09)	SHP-G (F08)	10	00-1F							
2A2	PLL-CP (F70)	N45 (F66)	OM DET (F55)	BS GAIN (F54)	AFC2 (F51)	V-FREE (F50)	1W-AV (F49)	1W-TV (F48)	82	00-FF							
2A3			Pow-Storage (F112)	R-Y Adj. (F99)	C-ANGLE (F95)	TAKE-OFF-YUV (F94)	TAKE-OFF-AV (F93)	TAKE-OFF-TV (F92)	39	00-3F							
2A4				SIF-PAL (F139)	A2-ID-Response (F125)	V-STD YUV (F119)	V-STD-AV (F118)	V-STD-TV (F117)	08	00-1F							
2A5						NICAM-AUTO-MUTE (F86)	AGC-SW-OFF (F75)	SMALL-SURR (F71)	02	00-07							
2A6	AV2 (O11)	AV (O10)	Forced-Col (O08)	N358-TV (O07)	N443-TV (O06)	SECAM (O05)	VIF (O04)	HOTEL (O01)	DE	00-FF							
2A7	LED-CONT (O21)	R/C MENU (O20)	BIL (O17)	TEXT (O16)	A2 (O15)	NICAM (O14)	S-CTR (O13)	YUV (O12)	03	00-FF							
2A8	1-Chip (O30)	LNA TUNER (O29)	MESSAGE (O27)	ANT-BOOSTER (O26)	WHITE BACK (O25)	YUV BKGD (O24)	Sharp-logo (O23)	S-Booster (O22)	08	00-FF							
2A9					M (O09)	D/K (O09)	I (O09)	B/G (O09)	0F	01-0F							
2AA		Thai (018)	Arabic (O18)	Malay (O18)	Russian (O18)	France (O18)	Chinese (O18)	Engilish (O18)	3F	01-3F							
2AB						SEARCH SPEED (O19)			03	01-05							
2AC	HOTEL CHANNEL POSITION (O02)								FF	00-63, FF							
2AD	HOTEL VOLUME (O03)								FF	00-3C, FF							
2AE	MESSAGE SCROLL TIME (O28)								00	00-14							
2AF																	
2B0																	
2B1																	
2B2																	
2B3																	
2B4																	
2B5																	
2B6																	
2B7																	
2B8	Inbox Message - Character 65								FF	00-FF							
2B9	Inbox Message - Character 66								FF	00-FF							
2BA	Inbox Message - Character 67								FF	00-FF							
2BB	Inbox Message - Character 68								FF	00-FF							
2BC	Inbox Message - Character 69								FF	00-FF							
2BD	Inbox Message - Character 70								FF	00-FF							
2BE	Inbox Message - Character 71								FF	00-FF							
2BF	Inbox Message - Character 72								FF	00-FF							
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	REMARK
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	
2C0	Inbox Message - Character 01								FF	0-FF							
2C1	Inbox Message - Character 02								FF	0-FF							
2C2	Inbox Message - Character 03								FF	0-FF							
2C3	Inbox Message - Character 04								FF	0-FF							
2C4	Inbox Message - Character 05								FF	0-FF							
2C5	Inbox Message - Character 06								FF	0-FF							
2C6	Inbox Message - Character 07								FF	0-FF							
2C7	Inbox Message - Character 08								FF	0-FF							
2C8	Inbox Message - Character 09								FF	0-FF							
2C9	Inbox Message - Character 10								FF	0-FF							
2CA	Inbox Message - Character 11								FF	0-FF							
2CB	Inbox Message - Character 12								FF	0-FF							
2CC	Inbox Message - Character 13								FF	0-FF							
2CD	Inbox Message - Character 14								FF	0-FF							
2CE	Inbox Message - Character 15								FF	0-FF							
2CF	Inbox Message - Character 16								FF	0-FF							
2D0	Inbox Message - Character 17								FF	0-FF							
2D1	Inbox Message - Character 18								FF	0-FF							
2D2	Inbox Message - Character 19								FF	0-FF							
2D3	Inbox Message - Character 20								FF	0-FF							
2D4	Inbox Message - Character 21								FF	0-FF							
2D5	Inbox Message - Character 22								FF	0-FF							
2D6	Inbox Message - Character 23								FF	0-FF							
2D7	Inbox Message - Character 24								FF	0-FF							
2D8	Inbox Message - Character 25								FF	0-FF							
2D9	Inbox Message - Character 26								FF	0-FF							
2DA	Inbox Message - Character 27								FF	0-FF							
2DB	Inbox Message - Character 28								FF	0-FF							
2DC	Inbox Message - Character 29								FF	0-FF							
2DD	Inbox Message - Character 30								FF	0-FF							
2DE	Inbox Message - Character 31								FF	0-FF							1) Add new area for Message Data for Inbox Message .
2DF	Inbox Message - Character 32								FF	0-FF							
2E0	Inbox Message - Character 33								FF	0-FF							
2E1	Inbox Message - Character 34								FF	0-FF							
2E2	Inbox Message - Character 35								FF	0-FF							
2E3	Inbox Message - Character 36								FF	0-FF							
2E4	Inbox Message - Character 37								FF	0-FF							
2E5	Inbox Message - Character 38								FF	0-FF							
2E6	Inbox Message - Character 39								FF	0-FF							
2E7	Inbox Message - Character 40								FF	0-FF							
2E8	Inbox Message - Character 41								FF	0-FF							
2E9	Inbox Message - Character 42								FF	0-FF							
2EA	Inbox Message - Character 43								FF	0-FF							
2EB	Inbox Message - Character 44								FF	0-FF							
2EC	Inbox Message - Character 45								FF	0-FF							
2ED	Inbox Message - Character 46								FF	0-FF							
2EE	Inbox Message - Character 47								FF	0-FF							
2EF	Inbox Message - Character 48								FF	0-FF							
2F0	Inbox Message - Character 49								FF	0-FF							
2F1	Inbox Message - Character 50								FF	0-FF							
2F2	Inbox Message - Character 51								FF	0-FF							
2F3	Inbox Message - Character 52								FF	0-FF							
2F4	Inbox Message - Character 53								FF	0-FF							
2F5	Inbox Message - Character 54								FF	0-FF							
2F6	Inbox Message - Character 55								FF	0-FF							
2F7	Inbox Message - Character 56								FF	0-FF							
2F8	Inbox Message - Character 57								FF	0-FF							
2F9	Inbox Message - Character 58								FF	0-FF							
2FA	Inbox Message - Character 59								FF	0-FF							
2FB	Inbox Message - Character 60								FF	0-FF							
2FC	Inbox Message - Character 61								FF	0-FF							
2FD	Inbox Message - Character 62								FF	0-FF							
2FE	Inbox Message - Character 63								FF	0-FF							
2FF	Inbox Message - Character 64								FF	0-FF							
MODEL									MODEL								
LETTER NO.									LETTER NO.								

*1 0 : individually selectable rating system 1 : threshold selectable rating system

*2 0 : CATEGORY bit mask with (01,05) 1st character 1 : CATEGORY bit mask with (01,05) 2nd character

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
300	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 0
301	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 1
302	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 2
303	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 3
304	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 4
305	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 5
306	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 6
307	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 7
308	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 8
309	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 9
30A	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 10
30B	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 11
30C	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 12
30D	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 13
30E	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 14
30F	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 15
310	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 16
311	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 17
312	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 18
313	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 19
314	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 20
315	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 21
316	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 22
317	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 23
318	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 24
319	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 25
31A	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 26
31B	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 27
31C	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 28
31D	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 29
31E	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 30
31F	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 31
320	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 32
321	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 33
322	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 34
323	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 35
324	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 36
325	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 37
326	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 38
327	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 39
328	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 40
329	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 41
32A	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 42
32B	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 43
32C	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 44
32D	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 45
32E	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 46
32F	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 47
330	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 48
331	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 49
332	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 50
333	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 51
334	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 52
335	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 53
336	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 54
337	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 55
338	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 56
339	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 57
33A	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 58
33B	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 59
33C	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 60
33D	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 61
33E	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 62
33F	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 63
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
340	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 64
341	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 65
342	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 66
343	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 67
344	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 68
345	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 69
346	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 70
347	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 71
348	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 72
349	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 73
34A	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 74
34B	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 75
34C	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 76
34D	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 77
34E	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 78
34F	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 79
350	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 80
351	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 81
352	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 82
353	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 83
354	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 84
355	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 85
356	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 86
357	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 87
358	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 88
359	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 89
35A	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 90
35B	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 91
35C	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 92
35D	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 93
35E	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 94
35F	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 95
360	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 96
361	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 97
362	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 98
363	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 99
364																	
365																	
366																	
367																	
368	Message Favorite Three- Character 65								FF	0-FF							
369	Message Favorite Three- Character 66								FF	0-FF							
36A	Message Favorite Three- Character 67								FF	0-FF							
36B	Message Favorite Three- Character 68								FF	0-FF							
36C	Message Favorite Three- Character 69								FF	0-FF							
36D	Message Favorite Three- Character 70								FF	0-FF							1) Add in for Favorite Message Three.
36E	Message Favorite Three- Character 71								FF	0-FF							
36F	Message Favorite Three- Character 72								FF	0-FF							
370	Message Favorite Two- Character 65								FF	0-FF							
371	Message Favorite Two- Character 66								FF	0-FF							
372	Message Favorite Two- Character 67								FF	0-FF							
373	Message Favorite Two- Character 68								FF	0-FF							
374	Message Favorite Two- Character 69								FF	0-FF							
375	Message Favorite Two- Character 70								FF	0-FF							
376	Message Favorite Two- Character 71								FF	0-FF							1) Add in for Favorite Message Two.
377	Message Favorite Two- Character 72								FF	0-FF							
378	Message Favorite One- Character 65								FF	0-FF							
379	Message Favorite One- Character 66								FF	0-FF							
37A	Message Favorite One- Character 67								FF	0-FF							
37B	Message Favorite One- Character 68								FF	0-FF							
37C	Message Favorite One- Character 69								FF	0-FF							
37D	Message Favorite One- Character 70								FF	0-FF							
37E	Message Favorite One- Character 71								FF	0-FF							1) Add in for Favorite Message One.
37F	Message Favorite One- Character 72								FF	0-FF							
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	REMARK
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	
380	Message Favorite One- Character 01								FF	00-FF							
381	Message Favorite One- Character 02								FF	00-FF							
382	Message Favorite One- Character 03								FF	0-FF							
383	Message Favorite One- Character 04								FF	0-FF							
384	Message Favorite One- Character 05								FF	0-FF							
385	Message Favorite One- Character 06								FF	0-FF							
386	Message Favorite One- Character 07								FF	0-FF							
387	Message Favorite One- Character 08								FF	0-FF							
388	Message Favorite One- Character 09								FF	0-FF							
389	Message Favorite One- Character 10								FF	0-FF							
38A	Message Favorite One- Character 11								FF	0-FF							
38B	Message Favorite One- Character 12								FF	0-FF							
38C	Message Favorite One- Character 13								FF	0-FF							
38D	Message Favorite One- Character 14								FF	0-FF							
38E	Message Favorite One- Character 15								FF	0-FF							
38F	Message Favorite One- Character 16								FF	0-FF							
390	Message Favorite One- Character 17								FF	0-FF							
391	Message Favorite One- Character 18								FF	0-FF							
392	Message Favorite One- Character 19								FF	0-FF							
393	Message Favorite One- Character 20								FF	0-FF							
394	Message Favorite One- Character 21								FF	0-FF							
395	Message Favorite One- Character 22								FF	0-FF							
396	Message Favorite One- Character 23								FF	0-FF							
397	Message Favorite One- Character 24								FF	0-FF							
398	Message Favorite One- Character 25								FF	0-FF							
399	Message Favorite One- Character 26								FF	0-FF							
39A	Message Favorite One- Character 27								FF	0-FF							
39B	Message Favorite One- Character 28								FF	0-FF							
39C	Message Favorite One- Character 29								FF	0-FF							
39D	Message Favorite One- Character 30								FF	0-FF							
39E	Message Favorite One- Character 31								FF	0-FF							
39F	Message Favorite One- Character 32								FF	0-FF							1) Add new area for Message Data for Favorite Message One .
3A0	Message Favorite One- Character 33								FF	0-FF							
3A1	Message Favorite One- Character 34								FF	0-FF							
3A2	Message Favorite One- Character 35								FF	0-FF							
3A3	Message Favorite One- Character 36								FF	0-FF							
3A4	Message Favorite One- Character 37								FF	0-FF							
3A5	Message Favorite One- Character 38								FF	0-FF							
3A6	Message Favorite One- Character 39								FF	0-FF							
3A7	Message Favorite One- Character 40								FF	0-FF							
3A8	Message Favorite One- Character 41								FF	0-FF							
3A9	Message Favorite One- Character 42								FF	0-FF							
3AA	Message Favorite One- Character 43								FF	0-FF							
3AB	Message Favorite One- Character 44								FF	0-FF							
3AC	Message Favorite One- Character 45								FF	0-FF							
3AD	Message Favorite One- Character 46								FF	0-FF							
3AE	Message Favorite One- Character 47								FF	0-FF							
3AF	Message Favorite One- Character 48								FF	0-FF							
3B0	Message Favorite One- Character 49								FF	0-FF							
3B1	Message Favorite One- Character 50								FF	0-FF							
3B2	Message Favorite One- Character 51								FF	0-FF							
3B3	Message Favorite One- Character 52								FF	0-FF							
3B4	Message Favorite One- Character 53								FF	0-FF							
3B5	Message Favorite One- Character 54								FF	0-FF							
3B6	Message Favorite One- Character 55								FF	0-FF							
3B7	Message Favorite One- Character 56								FF	0-FF							
3B8	Message Favorite One- Character 57								FF	0-FF							
3B9	Message Favorite One- Character 58								FF	0-FF							
3BA	Message Favorite One- Character 59								FF	0-FF							
3BB	Message Favorite One- Character 60								FF	0-FF							
3BC	Message Favorite One- Character 61								FF	0-FF							
3BD	Message Favorite One- Character 62								FF	0-FF							
3BE	Message Favorite One- Character 63								FF	0-FF							
3BF	Message Favorite One- Character 64								FF	0-FF							
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

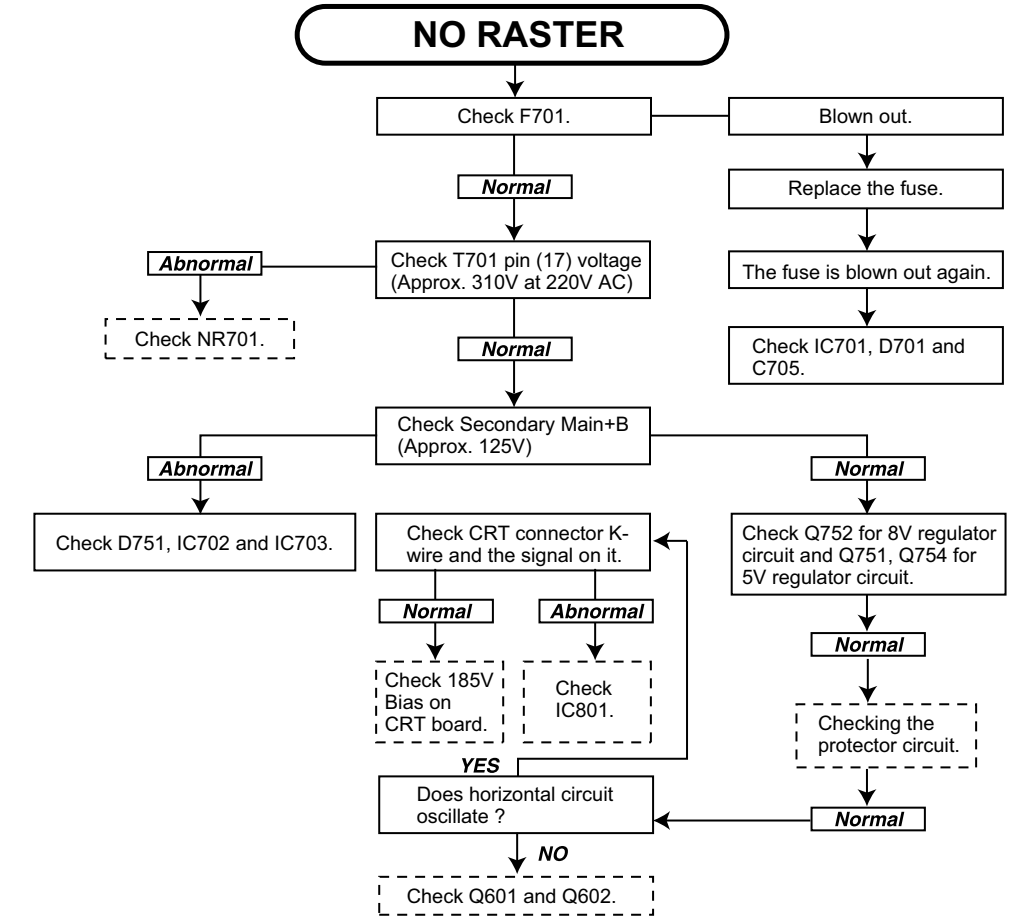
SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	REMARK
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	
3C0	Message Favorite Two- Character 01								FF	0-FF							
3C1	Message Favorite Two- Character 02								FF	0-FF							
3C2	Message Favorite Two- Character 03								FF	0-FF							
3C3	Message Favorite Two- Character 04								FF	0-FF							
3C4	Message Favorite Two- Character 05								FF	0-FF							
3C5	Message Favorite Two- Character 06								FF	0-FF							
3C6	Message Favorite Two- Character 07								FF	0-FF							
3C7	Message Favorite Two- Character 08								FF	0-FF							
3C8	Message Favorite Two- Character 09								FF	0-FF							
3C9	Message Favorite Two- Character 10								FF	0-FF							
3CA	Message Favorite Two- Character 11								FF	0-FF							
3CB	Message Favorite Two- Character 12								FF	0-FF							
3CC	Message Favorite Two- Character 13								FF	0-FF							
3CD	Message Favorite Two- Character 14								FF	0-FF							
3CE	Message Favorite Two- Character 15								FF	0-FF							
3CF	Message Favorite Two- Character 16								FF	0-FF							
3D0	Message Favorite Two- Character 17								FF	0-FF							
3D1	Message Favorite Two- Character 18								FF	0-FF							
3D2	Message Favorite Two- Character 19								FF	0-FF							
3D3	Message Favorite Two- Character 20								FF	0-FF							
3D4	Message Favorite Two- Character 21								FF	0-FF							
3D5	Message Favorite Two- Character 22								FF	0-FF							
3D6	Message Favorite Two- Character 23								FF	0-FF							
3D7	Message Favorite Two- Character 24								FF	0-FF							
3D8	Message Favorite Two- Character 25								FF	0-FF							
3D9	Message Favorite Two- Character 26								FF	0-FF							
3DA	Message Favorite Two- Character 27								FF	0-FF							
3DB	Message Favorite Two- Character 28								FF	0-FF							
3DC	Message Favorite Two- Character 29								FF	0-FF							
3DD	Message Favorite Two- Character 30								FF	0-FF							
3DE	Message Favorite Two- Character 31								FF	0-FF							1) Add new area for Message Data for Favorite Message Two .
3DF	Message Favorite Two- Character 32								FF	0-FF							
3E0	Message Favorite Two- Character 33								FF	0-FF							
3E1	Message Favorite Two- Character 34								FF	0-FF							
3E2	Message Favorite Two- Character 35								FF	0-FF							
3E3	Message Favorite Two- Character 36								FF	0-FF							
3E4	Message Favorite Two- Character 37								FF	0-FF							
3E5	Message Favorite Two- Character 38								FF	0-FF							
3E6	Message Favorite Two- Character 39								FF	0-FF							
3E7	Message Favorite Two- Character 40								FF	0-FF							
3E8	Message Favorite Two- Character 41								FF	0-FF							
3E9	Message Favorite Two- Character 42								FF	0-FF							
3EA	Message Favorite Two- Character 43								FF	0-FF							
3EB	Message Favorite Two- Character 44								FF	0-FF							
3EC	Message Favorite Two- Character 45								FF	0-FF							
3ED	Message Favorite Two- Character 46								FF	0-FF							
3EE	Message Favorite Two- Character 47								FF	0-FF							
3EF	Message Favorite Two- Character 48								FF	0-FF							
3F0	Message Favorite Two- Character 49								FF	0-FF							
3F1	Message Favorite Two- Character 50								FF	0-FF							
3F2	Message Favorite Two- Character 51								FF	0-FF							
3F3	Message Favorite Two- Character 52								FF	0-FF							
3F4	Message Favorite Two- Character 53								FF	0-FF							
3F5	Message Favorite Two- Character 54								FF	0-FF							
3F6	Message Favorite Two- Character 55								FF	0-FF							
3F7	Message Favorite Two- Character 56								FF	0-FF							
3F8	Message Favorite Two- Character 57								FF	0-FF							
3F9	Message Favorite Two- Character 58								FF	0-FF							
3FA	Message Favorite Two- Character 59								FF	0-FF							
3FB	Message Favorite Two- Character 60								FF	0-FF							
3FC	Message Favorite Two- Character 61								FF	0-FF							
3FD	Message Favorite Two- Character 62								FF	0-FF							
3FE	Message Favorite Two- Character 63								FF	0-FF							
3FF	Message Favorite Two- Character 64								FF	0-FF							

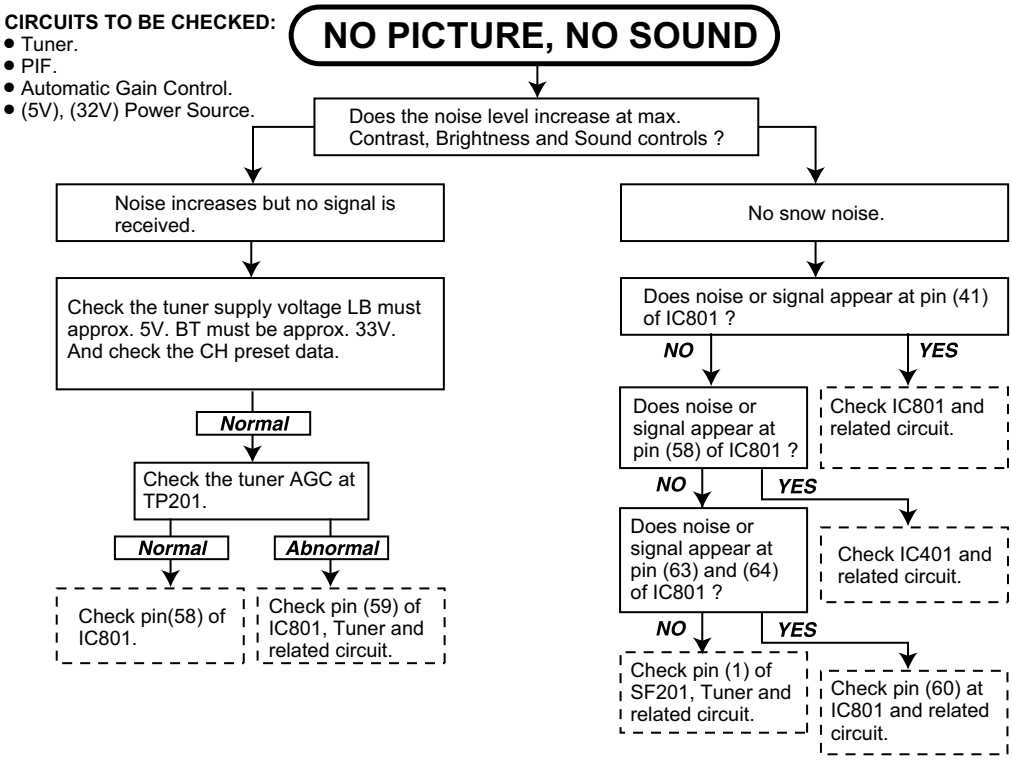
MODEL							MODEL						
LETTER NO.							LETTER NO.						

CHAPTER 5. TROUBLE SHOOTING FLOWCHART

[1] TROUBLE SHOOTING FLOWCHART



CIRCUITS TO BE CHECKED:
- Tuner.
- PIF.
- Automatic Gain Control.
- (5V), (32V) Power Source.


NO PICTURE, NO SOUND
Does the noise level increase at max. Contrast, Brightness and Sound controls ?
Noise increases but no signal is received.
No snow noise.
Check the tuner supply voltage LB must approx. 5V. BT must be approx. 33V. And check the CH preset data.
Does noise or signal appear at pin (41) of IC801 ?
NO
YES
Normal
Does noise or signal appear at pin (58) of IC801 ?
Check IC801 and related circuit.
Check the tuner AGC at TP201.
NO
YES
Normal
Abnormal
Does noise or signal appear at pin (63) and (64) of IC801 ?
Check IC401 and related circuit.
Check pin(58) of IC801.
Check pin (59) of IC801, Tuner and related circuit.
NO
YES
Check pin (1) of SF201, Tuner and related circuit.
Check pin (60) at IC801 and related circuit.

TROUBLE SHOOTING FLOWCHART (Continued)

CIRCUITS TO BE CHECKED:
- Sound Detector Circuit.
- Sound Switch and Att. Control.
- Audio Output Circuit.

NO SOUND

Does signal appear at pins (10) and (23) of IC3501 ?

NO → Check TV sound from pin (54) of IC801.

YES (Signal)

Does signal appear at pins (6) and (8) of IC301 ?

YES → Check Speaker.

NO → Check IC301 and peripheral circuit.

NEITHER VERTICAL NOR HORIZONTAL SYNCHRONIZATION

CIRCUIT TO BE CHECKED:
- Sync. Separator Circuit.

Check pins(5), (6), (10) and (11) of IC801.

DEFECTIVE VERTICAL AMP. AND VERTICAL LINEARITY

Re-adjust vertical size. (Bus Data)

Vertical linearity and size are abnormal.

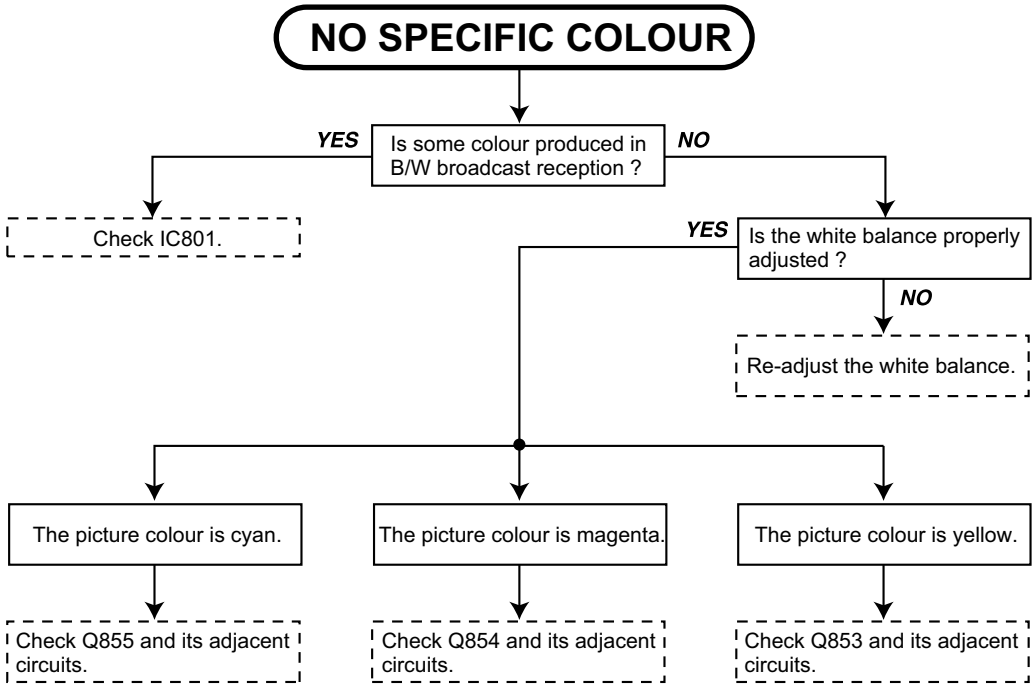
Check R503, R506, R513, R520 and C515.

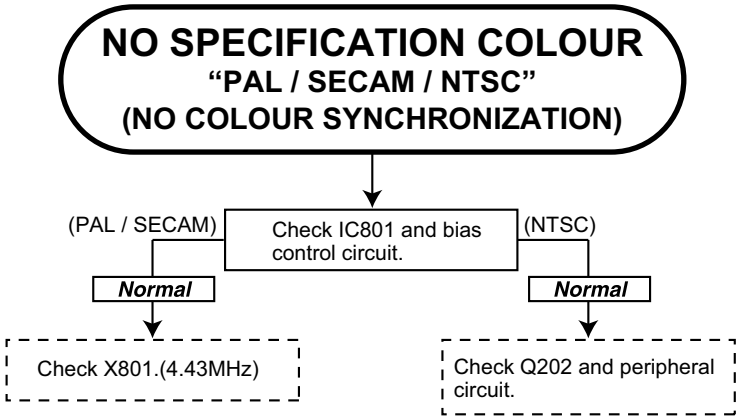
NO VERTICAL SCAN

Check IC501 bias.

Normal → Check C511.

Abnormal → Check IC501.

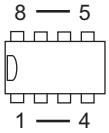

NO SPECIFIC COLOUR
YES
Is some colour produced in B/W broadcast reception ?
NO
Check IC801.
YES
Is the white balance properly adjusted ?
NO
Re-adjust the white balance.
The picture colour is cyan.
The picture colour is magenta.
The picture colour is yellow.
Check Q855 and its adjacent circuits.
Check Q854 and its adjacent circuits.
Check Q853 and its adjacent circuits.


NO SPECIFICATION COLOUR
"PAL / SECAM / NTSC"
(NO COLOUR SYNCHRONIZATION)
(PAL / SECAM)
Check IC801 and bias control circuit.
(NTSC)
Normal
Normal
Check X801.(4.43MHz)
Check Q202 and peripheral circuit.

CHAPTER 6. SOLID STATE DEVICE BASE DIAGRAM

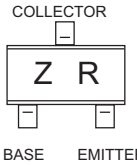
[1] SOLID STATE DEVICE BASE DIAGRAM

TOP VIEW

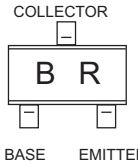


AT24W08

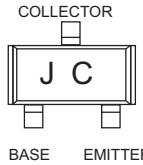
FXA003WJ



D601A



B709A

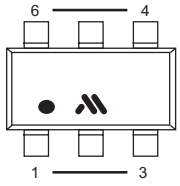


2SC2735

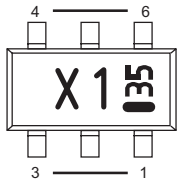
EX1393C

EX0263T

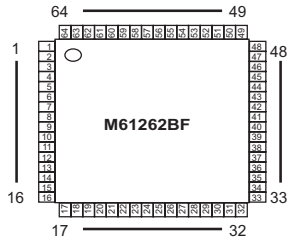
1SS356



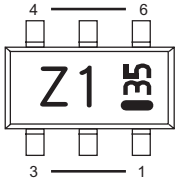
M1501XN



IMX1C/C

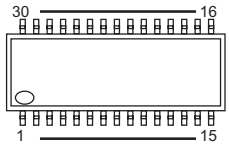


M61262B



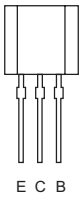
IMZ1A

IXB224W

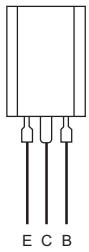


NJW1142

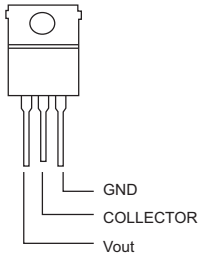
SIDE VIEW



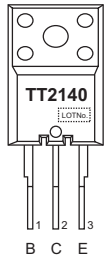
2SC3198



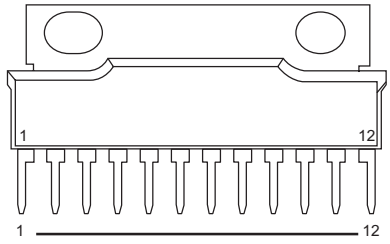
2SD468-C
2SC2235



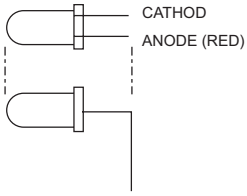
SE125N



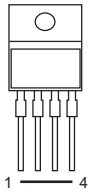
TT2140



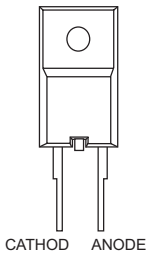
AN17820B



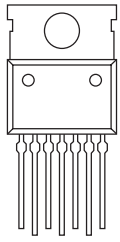
PX0013



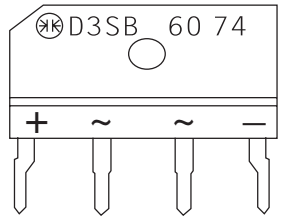
PQ09RDA



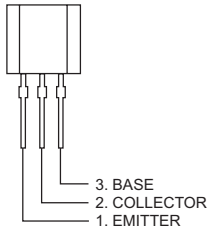
DX0452CE



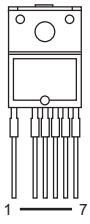
AN15525



DX0476CE



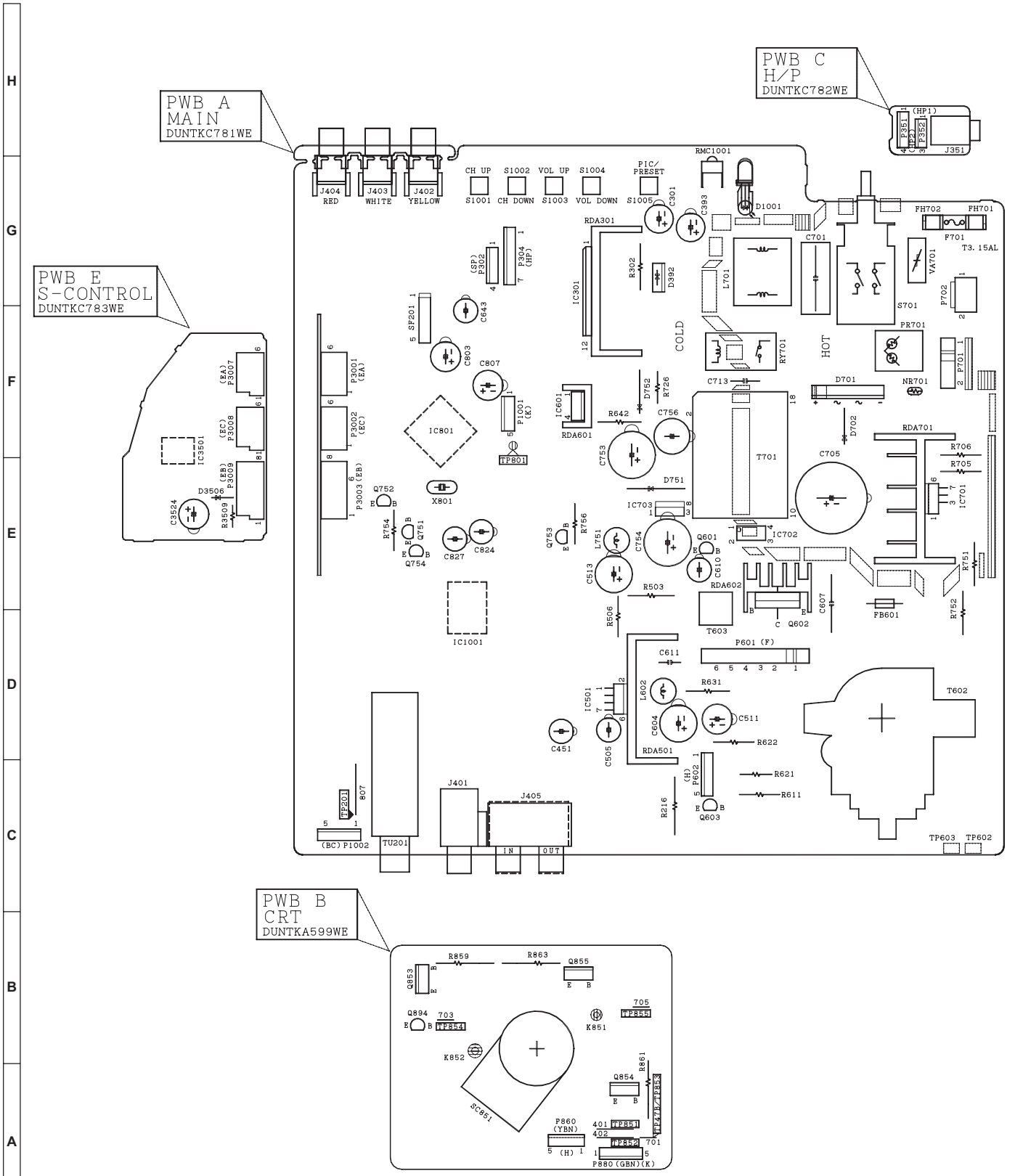
TX0110BM



STRW6753

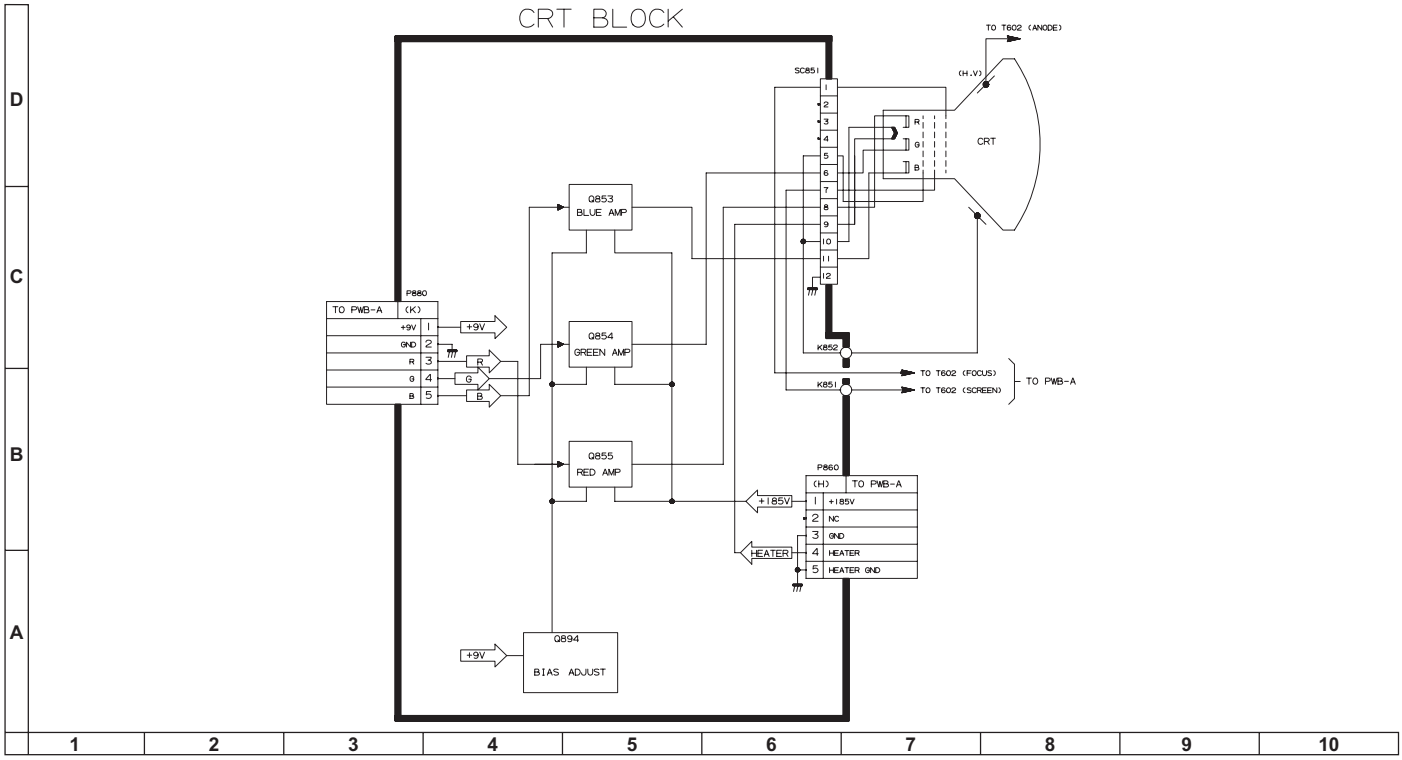
CHAPTER 7. CHASSIS LAYOUT

[1] CHASSIS LAYOUT

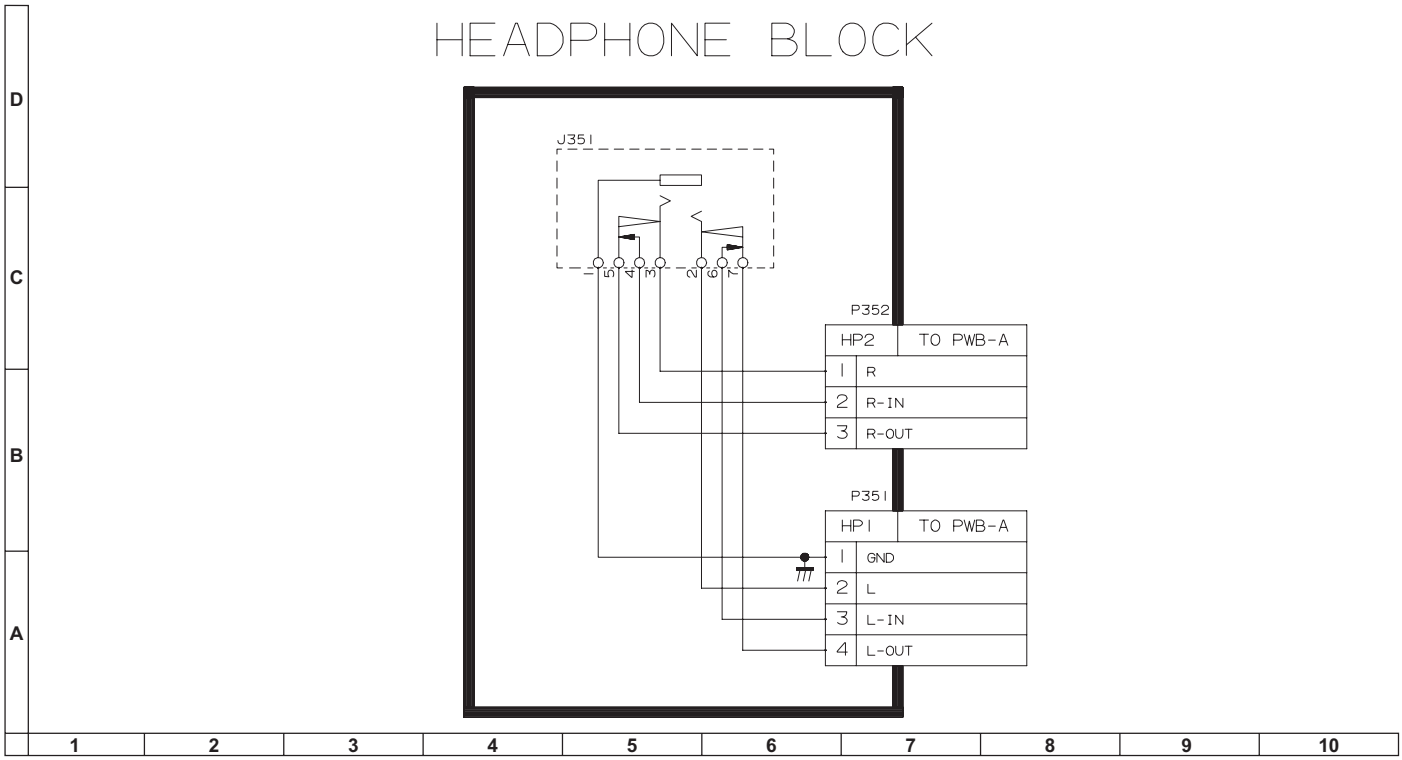


CHAPTER 8. BLOCK DIAGRAM

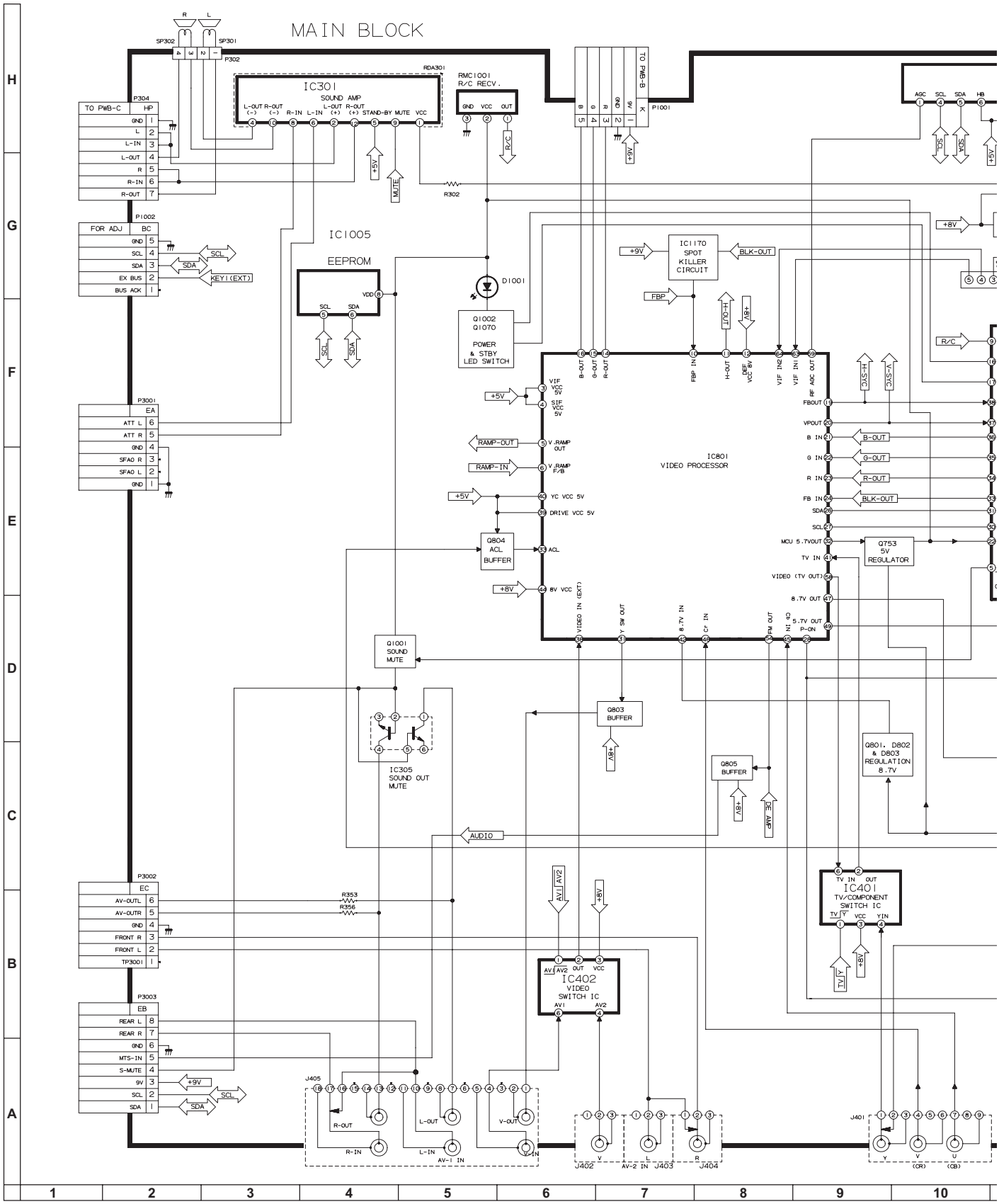
[1] BLOCK DIAGRAM: CRT UNIT

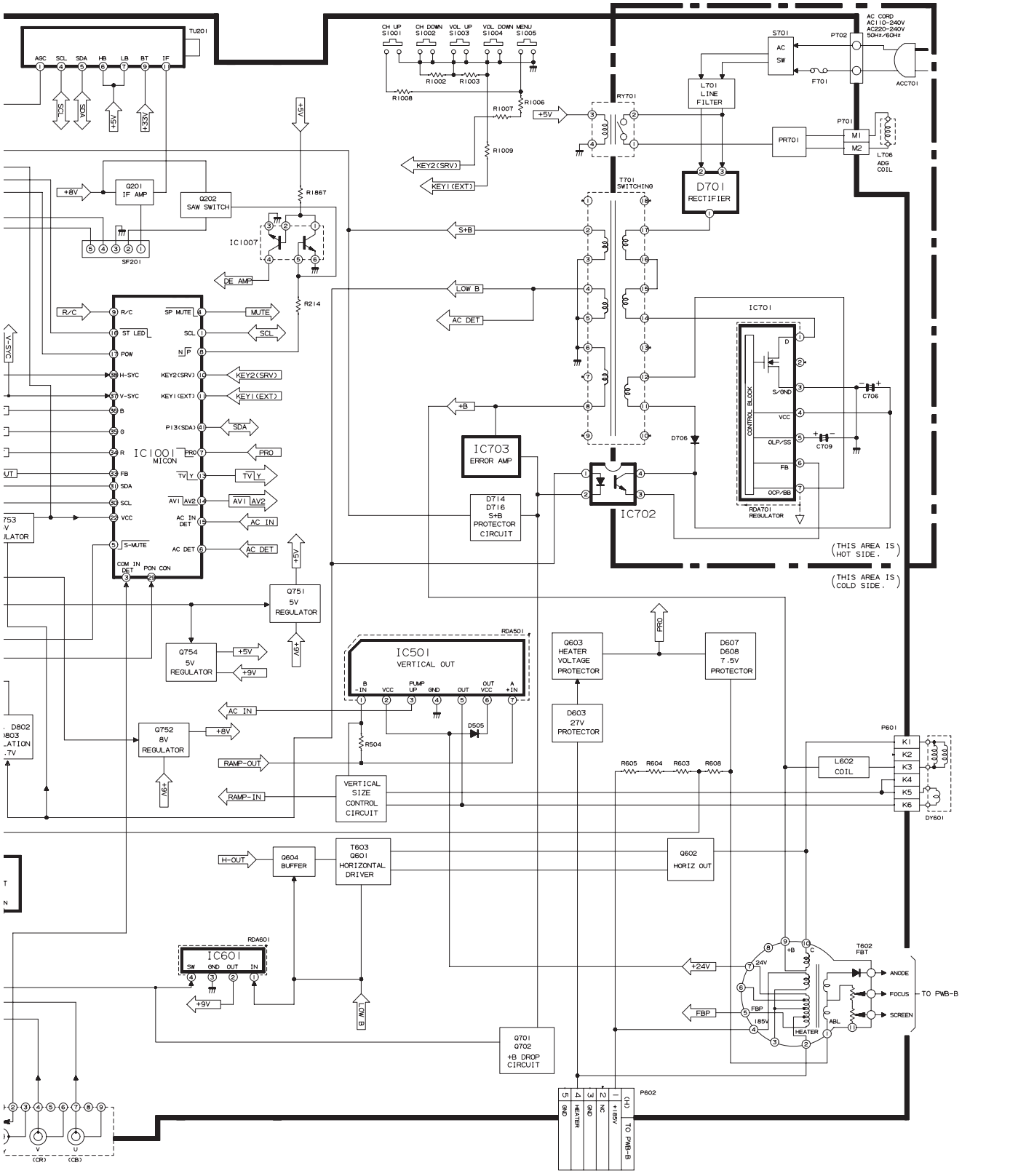


[2] BLOCK DIAGRAM: HEADPHONE UNIT



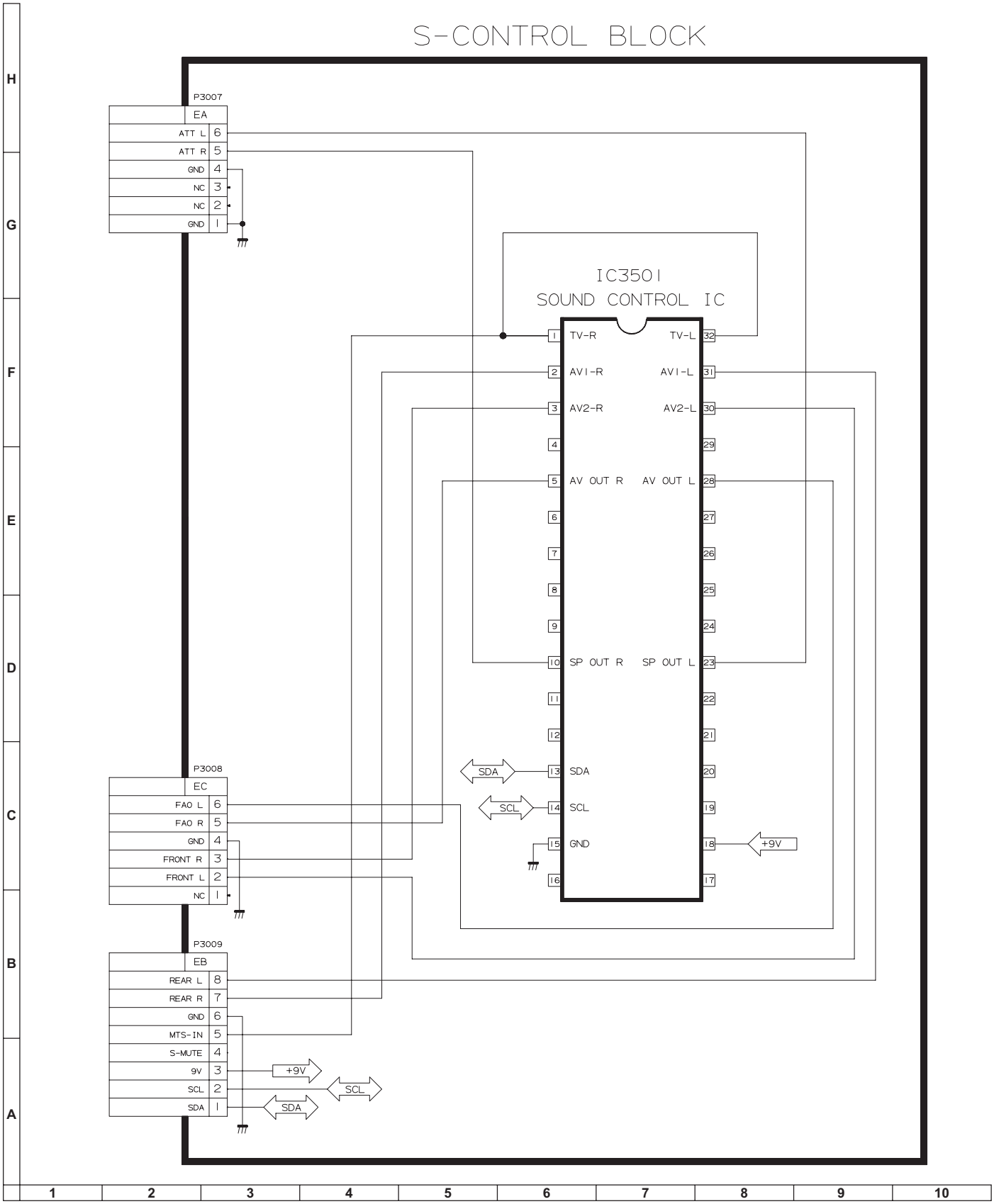
[3] BLOCK DIAGRAM: MAIN UNIT





10	11	12	13	14	15	16	17	18	19

[4] BLOCK DIAGRAM: S-CONTROL UNIT



CHAPTER 9. DESCRIPTION OF SCHEMATIC DIAGRAM

[1] DESCRIPTION OF SCHEMATIC DIAGRAM

SAFETY NOTES:

1. DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.
2. SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH " ⚠ " ( ) ARE IMPOTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

SERVICE PRECAUTION:

THE AREA ENCLOSED BY THIS LINE (—— - ——) IS DIRECTLY CONNECTED WITH AC MAINS VOLTAGE. WHEN SERVICING THE AREA, CONNECT AN ISOLATING TRANSFORMER BETWEEN TV RECEIVER AND AC LINE TO ELIMINATE HAZARD OF ELECTRIC SHOCK.

CAUTION:

This circuit diagram is a standard one, prited circuits may be subject to change for product improvement without prior notice.

NOTES:

1. The unit of resistance "ohm" is omitted. (K = 1000 ohms, M = Mega ohm).
2. All resistors are 1/16 watt, unless otherwise noted.
3. All capacitors are μF, unless otherwise noted. (P = μμF).

VOLTAGE MEASUREMENT CONDITIONS:

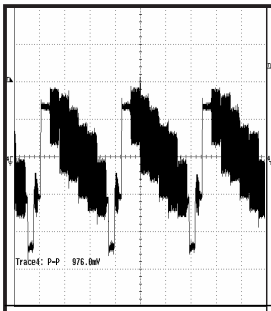
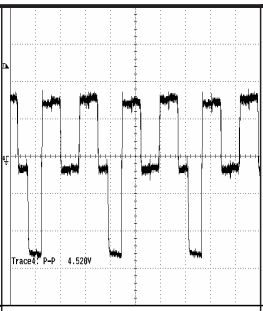
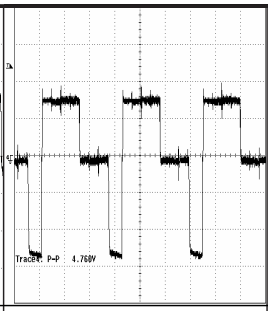
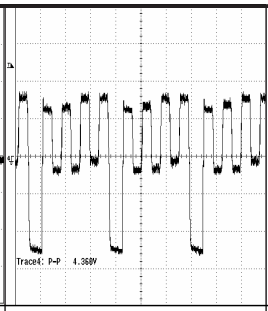
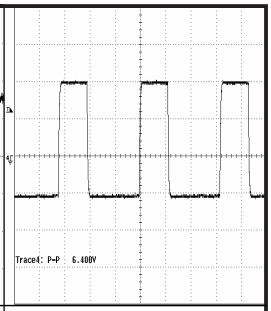
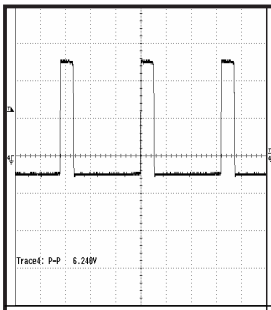
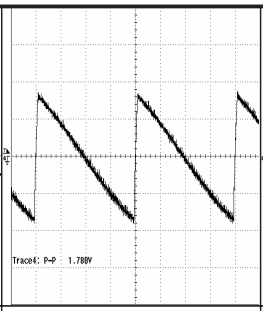
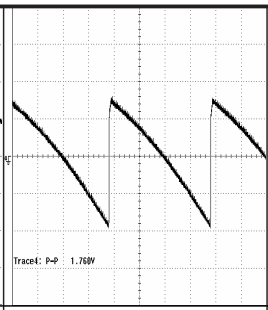
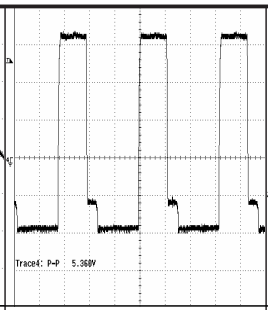
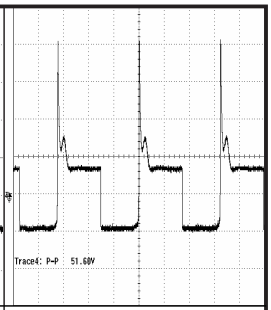
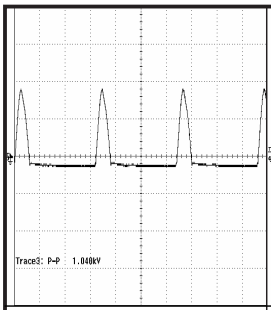
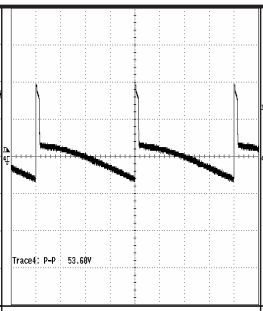
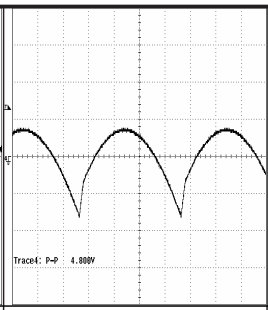
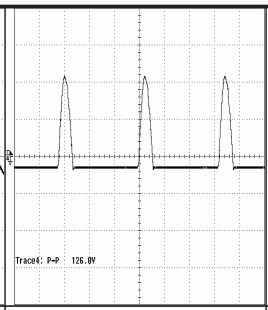
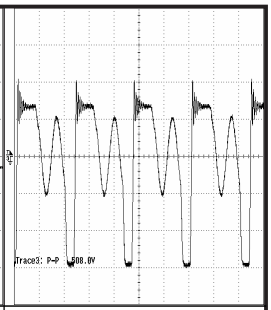
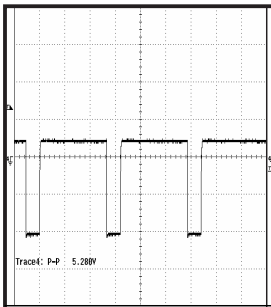
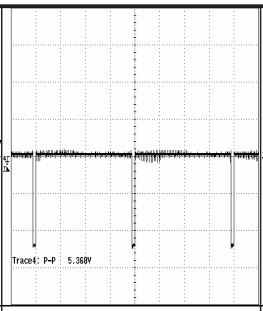
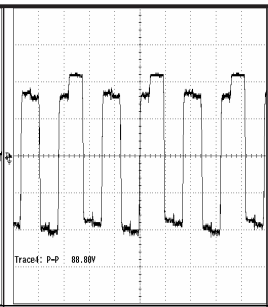
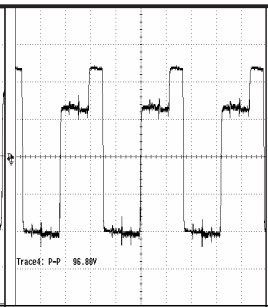
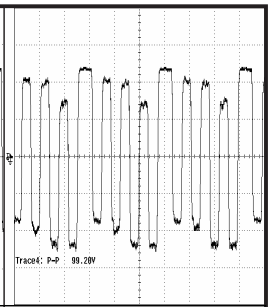
1. Voltages in parenthesis measured with no signal.
2. Voltages without parenthesis measured with 3mV B & W or Colour signal.
3. All the voltages in each point are measured with VTVM.

WAVEFORM MEASUREMENT CONDITIONS:

1. The colour bar generator signal of 1.0V peak applied at pin (41) of IC801.
2. Approximately 4V AGC bias.

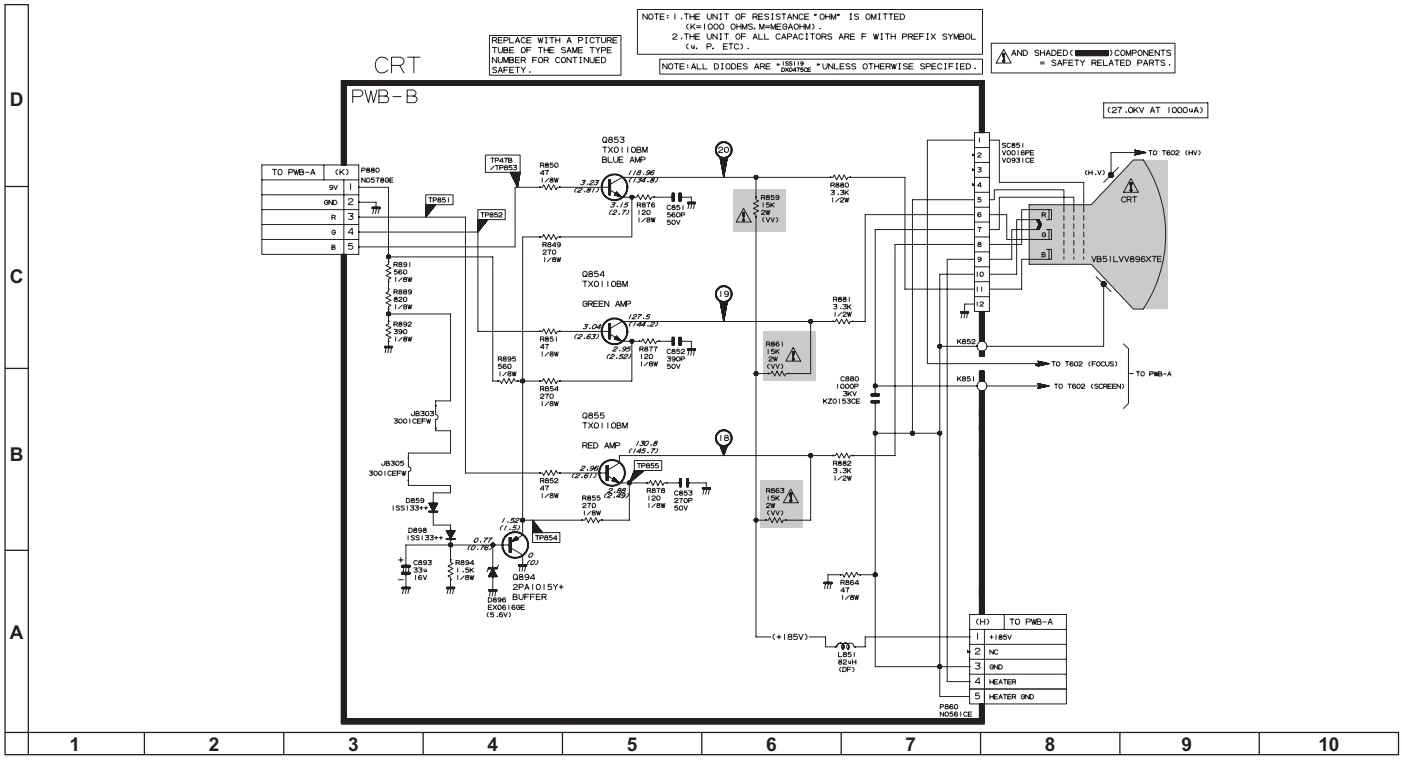
CHAPTER 10. WAVEFORMS

[1] WAVEFORMS

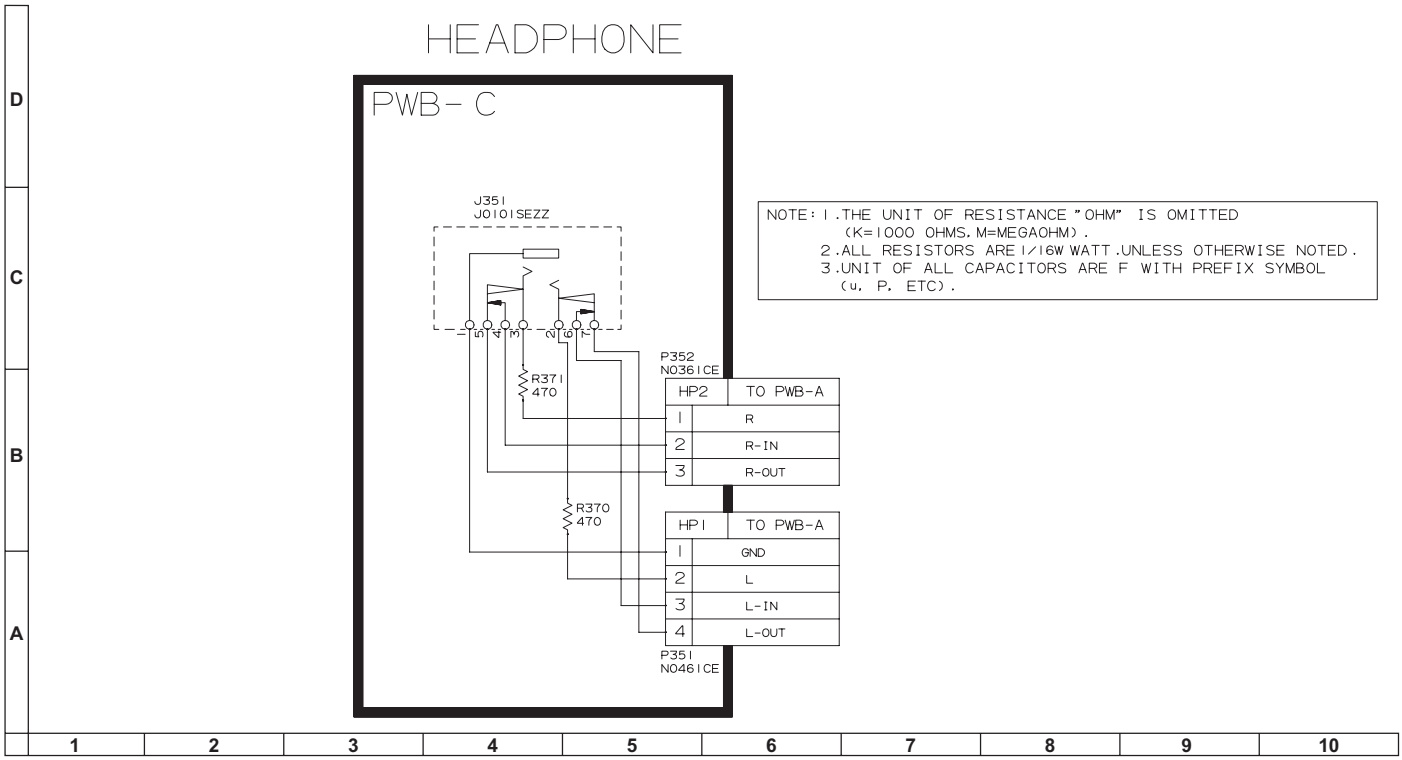
				
1) 0.976 Vp-p Horiz. Rate	2) 4.520 Vp-p Horiz. Rate	3) 4.760 Vp-p Horiz. Rate	4) 4.360 Vp-p Horiz. Rate	5) 6.12 Vp-p Horiz. Rate
				
6) 6.24 Vp-p Horiz. Rate	7) 1.80 Vp-p Vert. Rate	8) 1.76 Vp-p Vert. Rate	9) 5.63 Vp-p Horiz. Rate	10) 51.6 Vp-p Horiz. Rate
				
11) 1040 Vp-p Horiz. Rate	12) 53.6 Vp-p Vert. Rate	13) 4.8 Vp-p Vert. Rate	14) 126 Vp-p Horiz. Rate	15) 508 Vp-p
				
16) 5.28 Vp-p Horiz. Rate	17) 5.36 Vp-p Vert. Rate	18) 88.8 Vp-p Horiz. Rate	19) 96.8 Vp-p Horiz. Rate	20) 99.2 Vp-p Horiz. Rate

CHAPTER 11. SCHEMATIC DIAGRAM

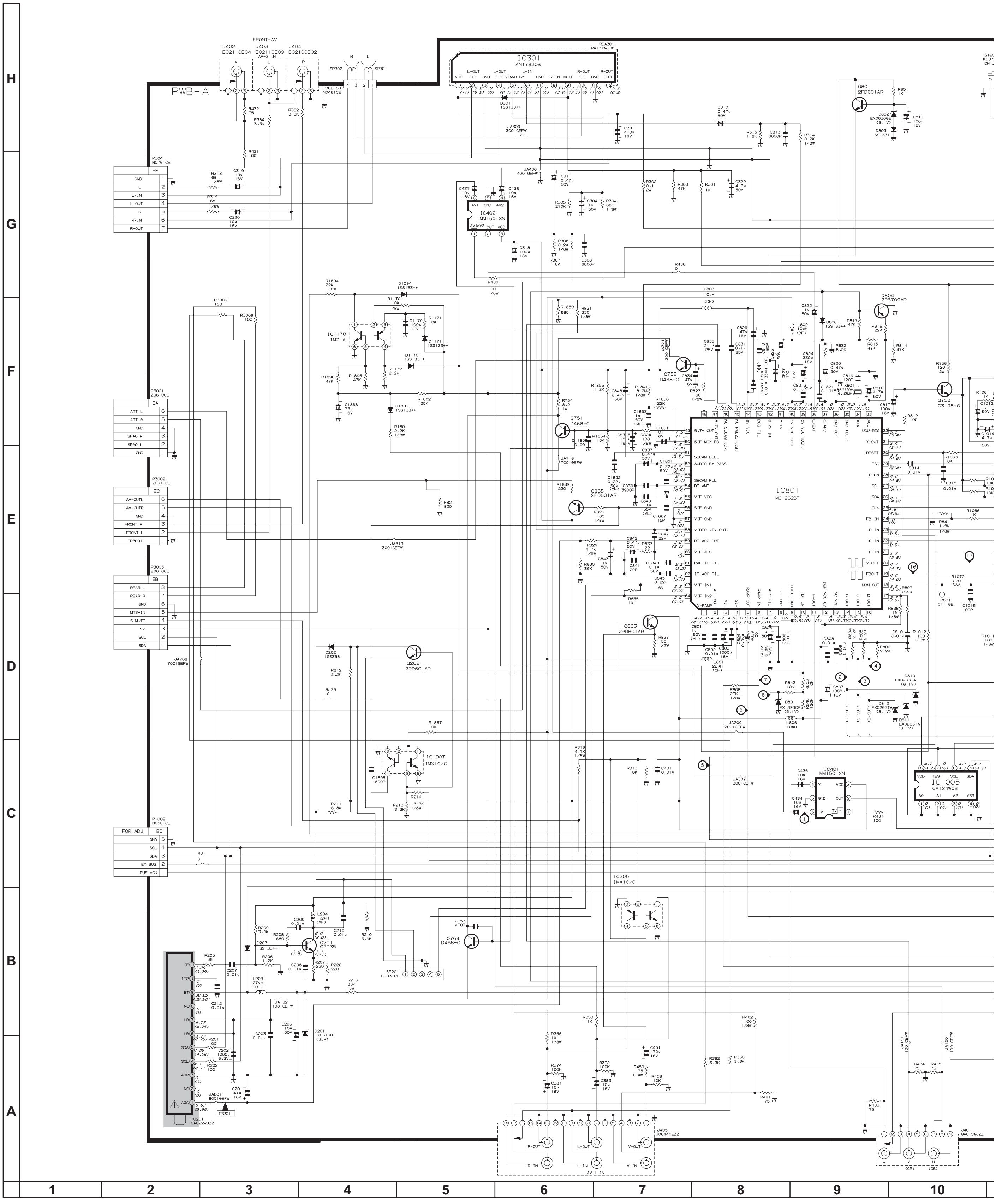
[1] SCHEMATIC DIAGRAM: CRT UNIT

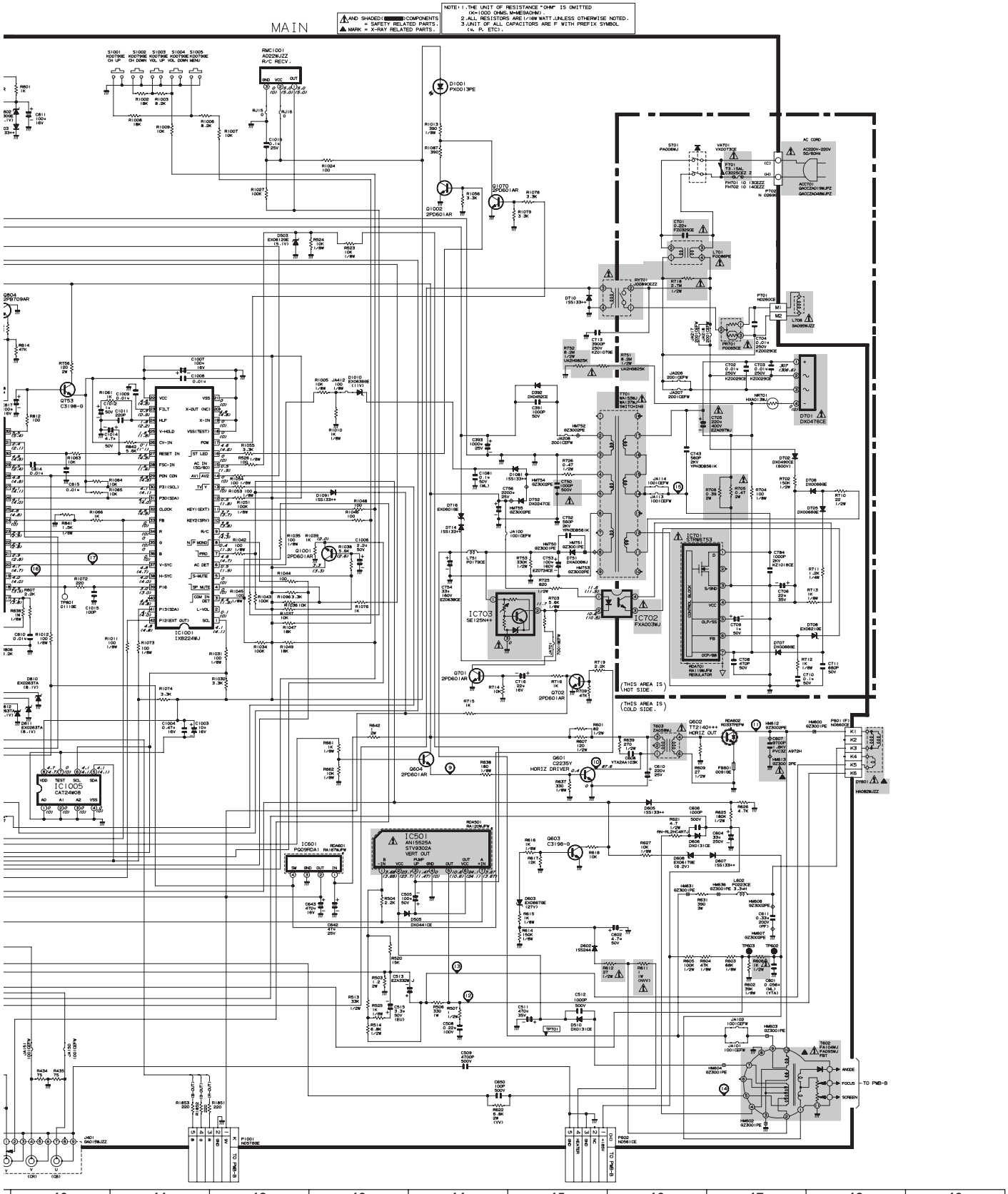


[2] SCHEMATIC DIAGRAM: HEADPHONE UNIT



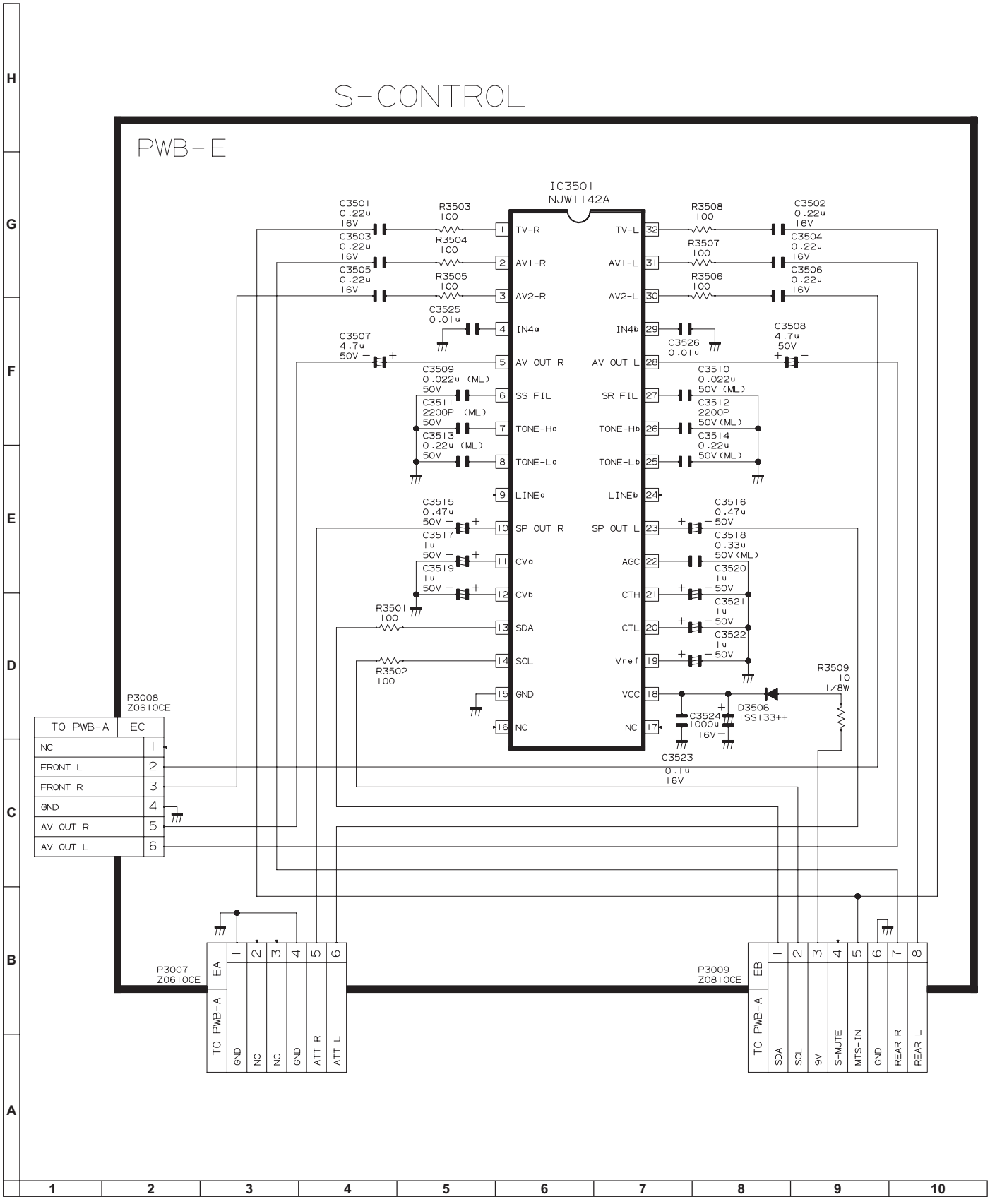
[3] SCHEMATIC DIAGRAM: MAIN UNIT





10	11	12	13	14	15	16	17	18	19

[4] SCHEMATIC DIAGRAM: S-CONTROL UNIT

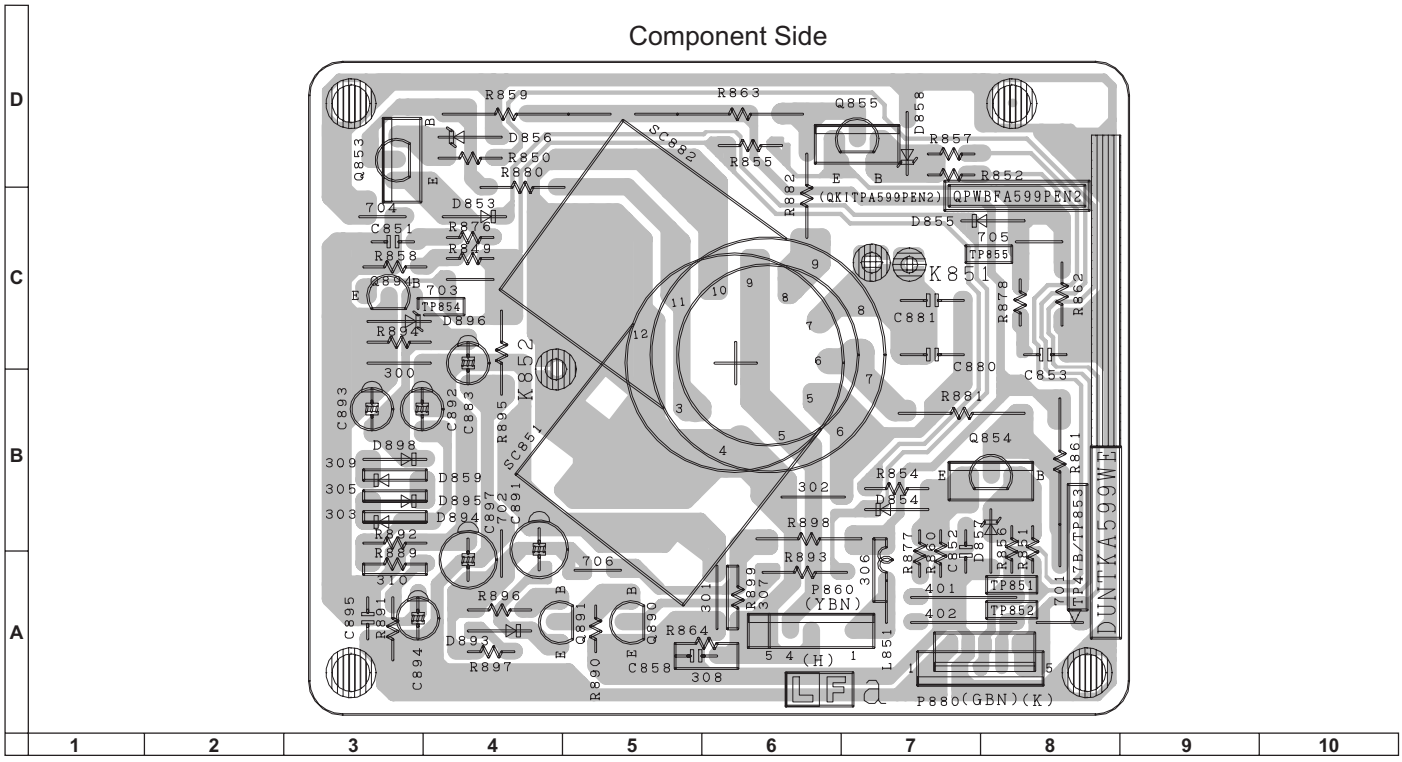


CHAPTER 12. PRINTED WIRING BOARD ASSEMBLIES

[1] PWB-B: CRT UNIT

1. CRT UNIT (Component Side)

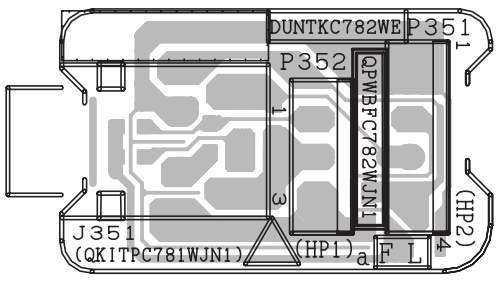
Component Side



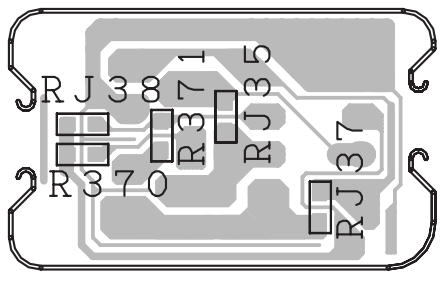
[2] PWB-C: HEADPHONE UNIT

1. HEADPHONE UNIT (Component Side) (Chip Parts Side)

Component Side

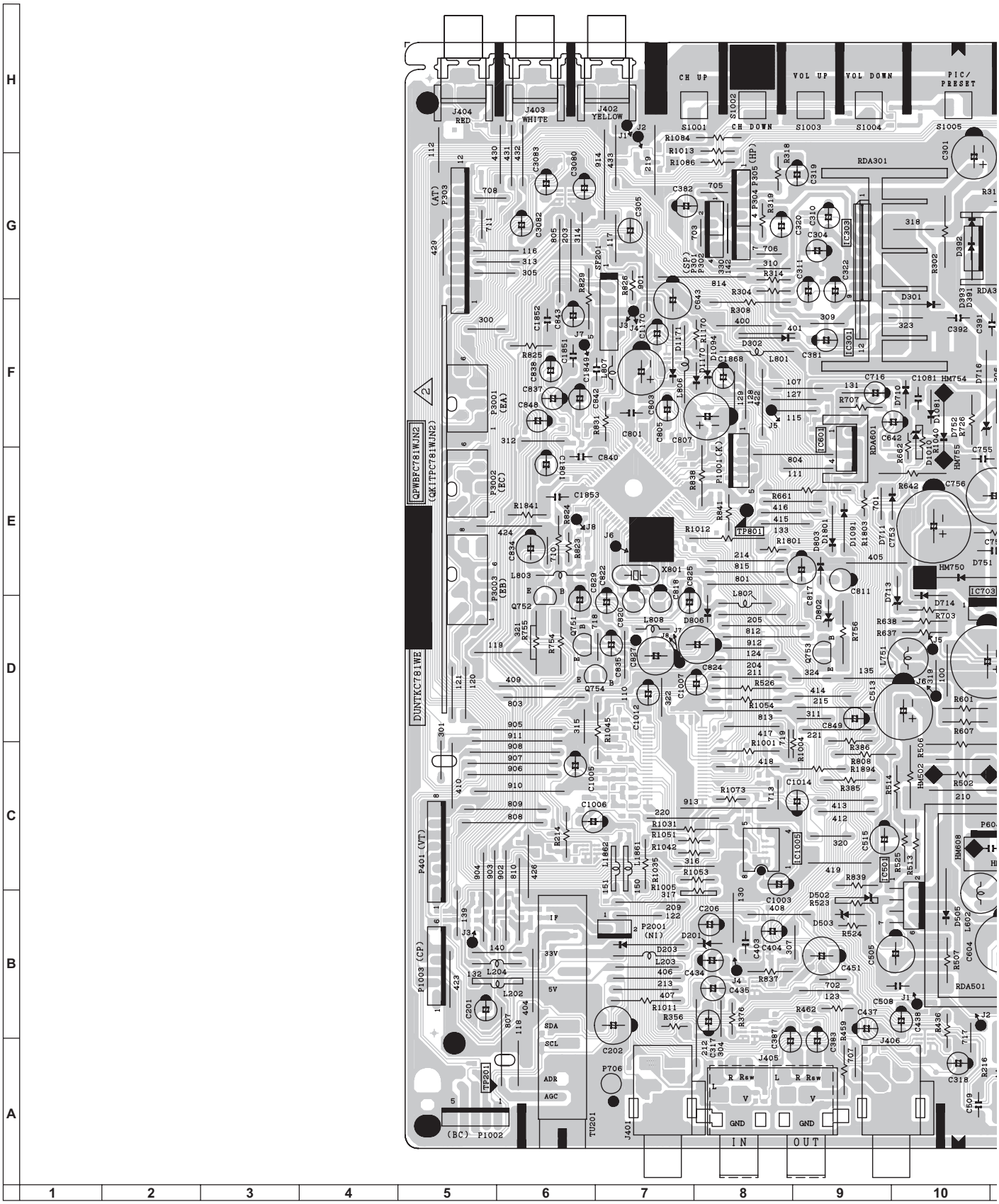


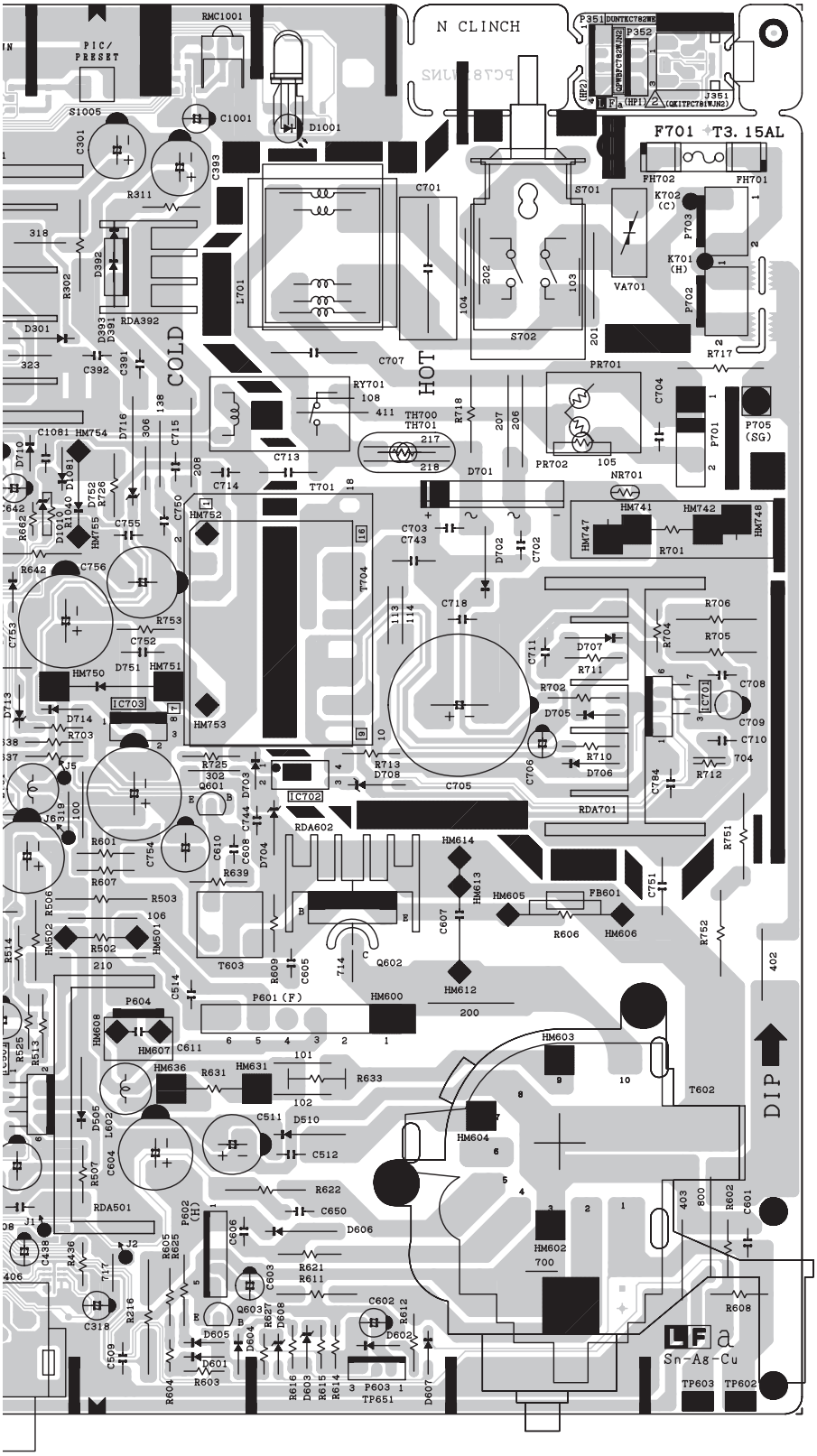
Chip Parts Side



[3] PWB-A: MAIN UNIT

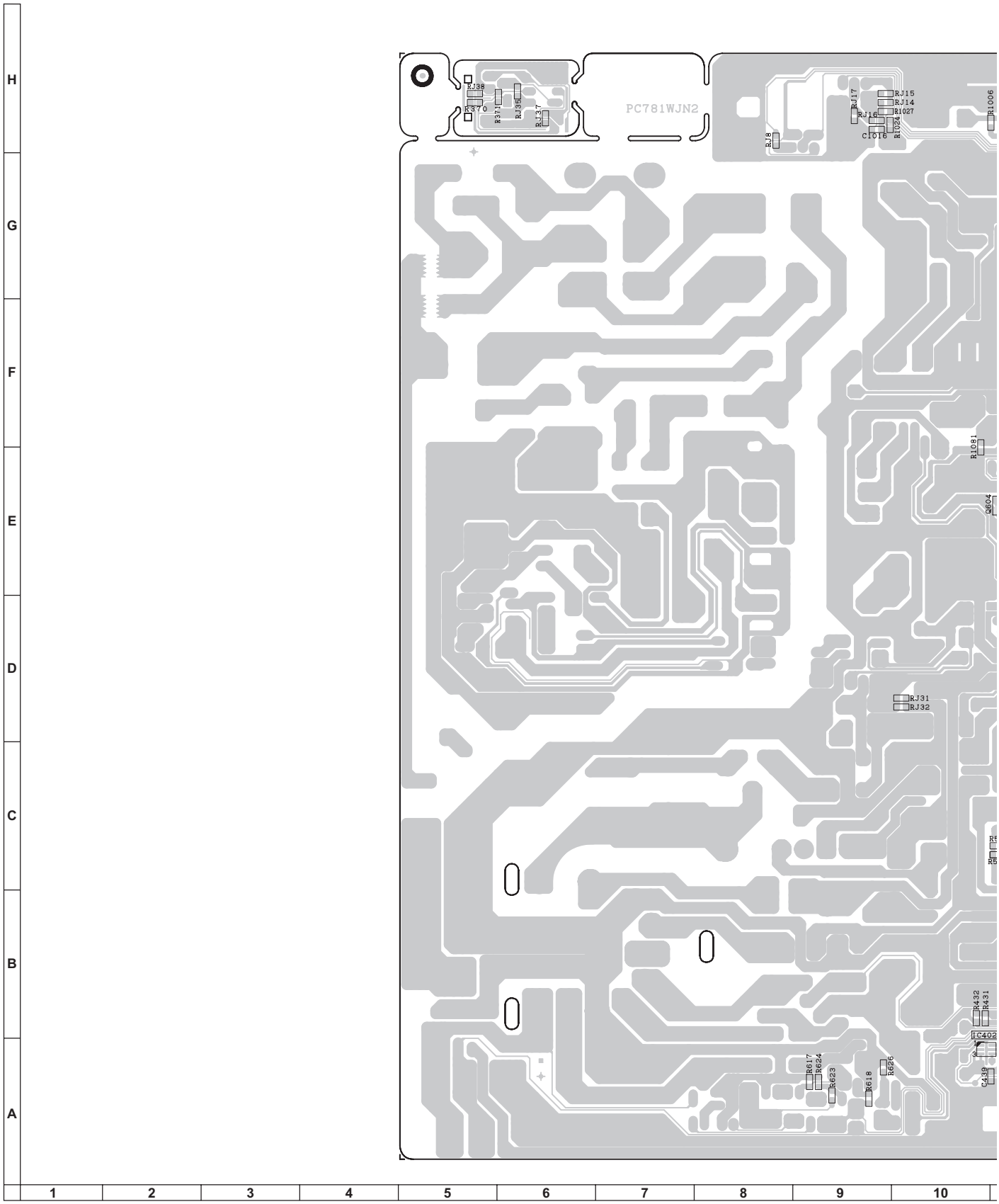
1. MAIN UNIT (Component Side)

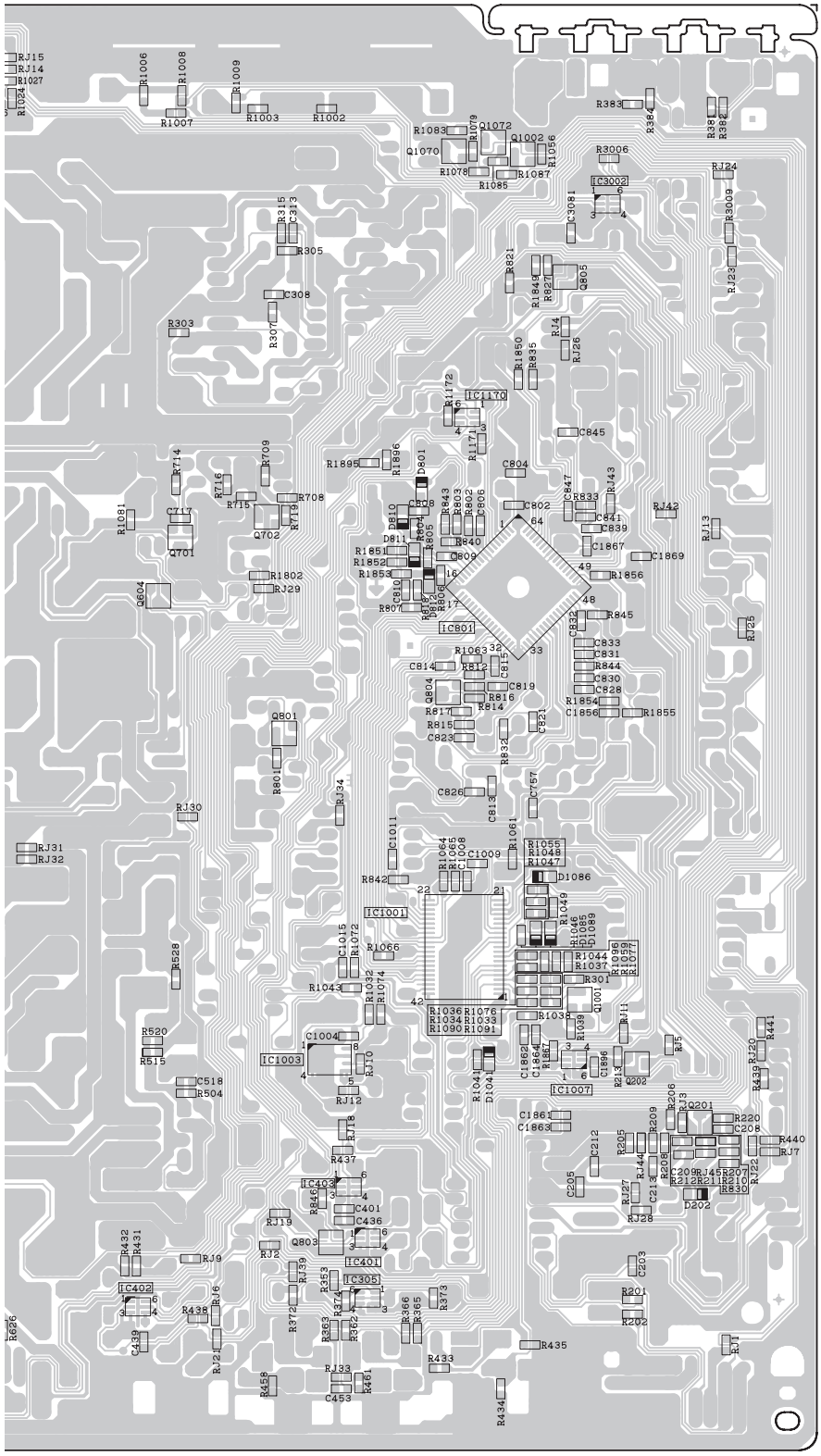




10	11	12	13	14	15	16	17	18	19

2. MAIN UNIT (Chip Parts Side)

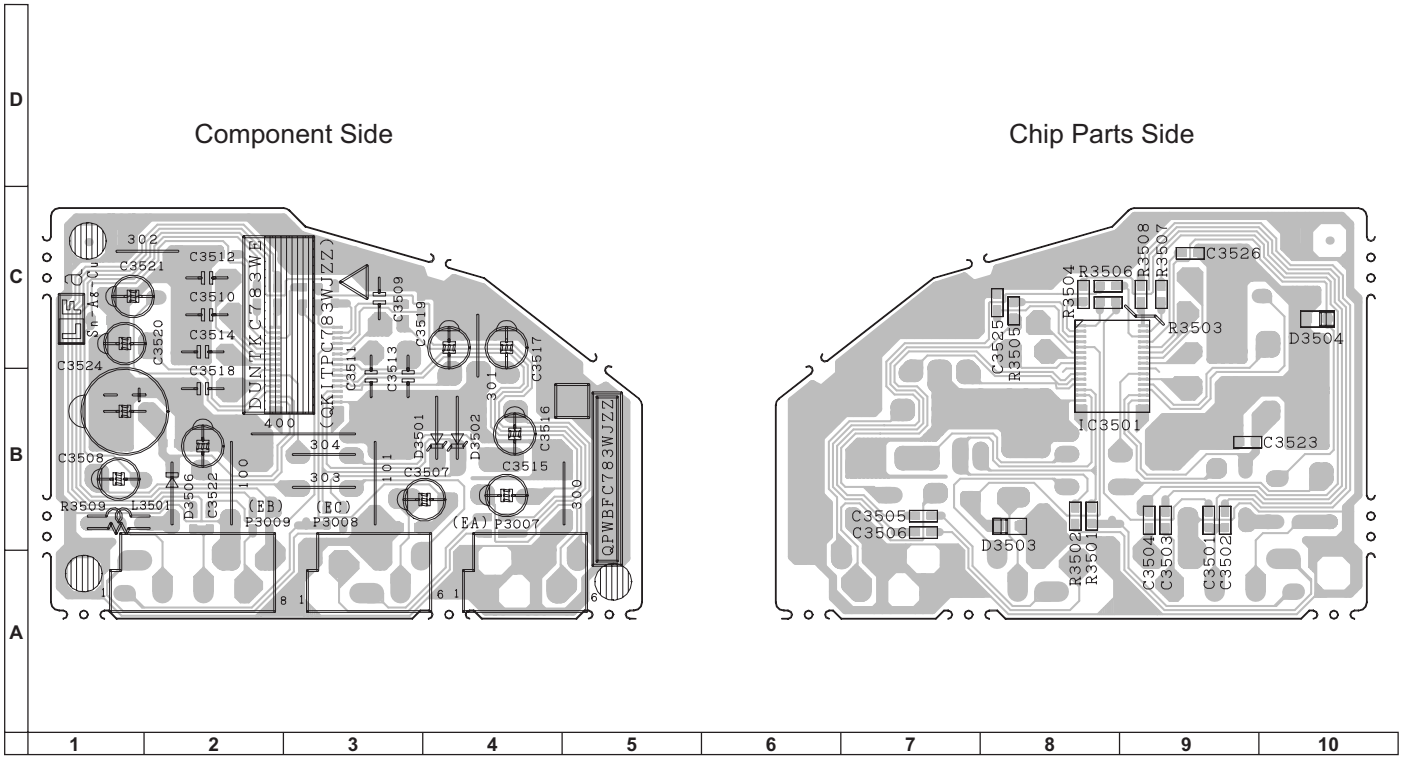




10	11	12	13	14	15	16	17	18	19

[4] PWB-E: S-CONTROL UNIT

1. S-CONTROL UNIT (Component Side) (Chip Parts Side)



SHARP PARTS GUIDE

No. S75L321JFV1RU

MODEL 21J-FV1RU

CONTENTS

[1] PICTURE TUBE

[2] PRINTED WIRING BOARD ASSEMBLIES

[3] MAIN UNIT

[4] CRT UNIT

[5] HEADPHONE UNIT

[6] S-CONTROL UNIT

[7] MISCELLANEOUS PARTS

[8] CABINET PARTS

[9] SUPPLIED ACCESSORIES

[10] PACKING PARTS

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for

SHARP CORPORATION

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The contents are subject to change without notice.

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[1] PICTURE TUBE					
	VB51LVV896X7E			R	Picture Tube
L706	RCiLGA095WJZZ	AM		R	Degaussing Coil
	QEARCA012WJZZ	AG		R	Ground-Part
[2] PRINTED WIRING BOARD ASSEMBLIES					
					(NOT REPLACEMENT ITEM)
	DUNTKC781WEC5	-		-	MAIN Unit
	DUNTKA599WEH7	-		-	CRT Unit
	DUNTKC782WEC1	-		-	HEADPHONE Unit
	DUNTKC783WEB6	-		-	S-CONTROL Unit
[3] MAIN UNIT					
					PWB-A: DUNTKC781WEC5
TU201	RTUNQA022WJZZ	AT		R	Tuner
IC301	VHiAN17820B-1	AL		R	I.C.
IC305	VSiMX1C/C//-1*			R	iMX1C
IC401	VHiMM1501XN-1*	AE		R	MM1501XNRE
IC402	VHiMM1501XN-1*	AE		R	MM1501XNRE
IC501	VHiAN15525A-1			R	AN15525A
IC601	VHiPQ09RDA1-1	AF		R	PQ090RDA1SZ
IC701	VHiSTRW6753-1	AM		R	STR-W6753LFNO.
IC702	RH-FXA003WJZZ	AD		R	PC123Y82
IC703	VHiSE125N++-F	AG		R	SE125N
IC801	VHiM61262BF1EQ	AZ		R	M61262BFP
IC1001	RH-iXB224WJZZ	AP		R	M37150MA-074FP
IC1005	VHiCAT24W08-1	AE		R	CAT24WC08Pi
IC1007	VSiMX1C/C//-1*			R	iMX1C
IC1170	VSiMZ1A////-1*	AC		R	iMZ1A
Q201	VS2SC2735//1E*	AC		R	2SC2735
Q202	VS2PD601AR/-1*	AB		R	2PD601AR
Q601	VS2SC2235Y/1E+	AE		R	2SC2235
Q602	VSTT2140+++-F	AG		R	TT2140
Q603	VS2SC3198-G-1+	AA		R	2SC3198
Q604	VS2PD601AR/-1*	AB		R	2PD601AR
Q701	VS2PD601AR/-1*	AB		R	2PD601AR
Q702	VS2PD601AR/-1*	AB		R	2PD601AR
Q751	VS2SD468-C/-1+	AD		R	2SD468
Q752	VS2SD468-C/-1+	AD		R	2SD468
Q753	VS2SC3198-G-1+	AA		R	2SC3198
Q754	VS2SD468-C/-1+	AD		R	2SD468
Q801	VS2PD601AR/-1*	AB		R	2PD601AR
Q803	VS2PD601AR/-1*	AB		R	2PD601AR
Q804	VS2PB709AR/-1*	AB		R	2PB709AR
Q805	VS2PD601AR/-1*	AB		R	2PD601AR
Q1001	VS2PD601AR/-1*	AB		R	2PD601AR
Q1002	VS2PD601AR/-1*	AB		R	2PD601AR
Q1070	VS2PD601AR/-1*	AB		R	2PD601AR
D201	RH-EX0676GEZZ*	AA		R	Zener Diode, 33V
D202	VHD1SS356//-1*	AC		R	Diode, 1SS356
D203	VHD1SS133++-1*			R	Diode, 1SS133
D301	VHD1SS133++-1*			R	Diode, 1SS133
D392	RH-DX0452CEZZ	AH		R	Diode, DX0452CE
D503	RH-EX0612GEZZY	AB		R	Zener Diode, 5.1V
D505	RH-DX0441CEZZ*	AC		R	Diode, DX0441CE
D510	RH-DX0131CEZZ*	AC		R	Diode, DX0131CE
D602	VHD1SS244//-1*	AB		R	Diode, 1SS244
D603	RH-EX0667GEZZ*	AA		R	Zener Diode, 27V
D605	VHD1SS133++-1*			R	Diode, 1SS133
D606	RH-DX0131CEZZ*	AC		R	Diode, DX0131CE
D607	VHD1SS133++-1*			R	Diode, 1SS133
D608	RH-EX0617GEZZ*	AA		R	Zener Diode, 6.2V
D701	RH-DX0476CEZZ	AG		R	Diode, DX0476CE
D702	RH-DX0490CEZZ*	AC		R	Diode, DX0490CE
D705	RH-DX0066GEZZ*	AC		R	Diode, DX0066GE
D706	RH-DX0066GEZZ*	AC		R	Diode, DX0066GE
D707	RH-DX0066GEZZ*	AC		R	Diode, DX0066GE
D708	RH-EX0621GEZZ*	AB		R	Zener Diode, 6.8V
D710	VHD1SS133++-1*			R	Diode, 1SS133
D714	VHD1SS133++-1*			R	Diode, 1SS133
D716	RH-EX0601GEZZ*	AA		R	Zener Diode, 3.6V
D751	RH-DXA006WJZZ	AD		R	Diode, DXA006WJ
D752	RH-DX0247CEZZ	AE		R	Diode, DX0247CE
D801	RH-EX1393CEZZ*	AB		R	Zener Diode, 5.1V
D802	RH-EX0630GEZZ*	AA		R	Zener Diode, 9.1V
D803	VHD1SS133++-1*			R	Diode, 1SS133
D806	VHD1SS133++-1*			R	Diode, 1SS133
D810	RH-EX0263TAZZY	AC		R	Zener Diode, 8.1V
D811	RH-EX0263TAZZY	AC		R	Zener Diode, 8.1V
D812	RH-EX0263TAZZY	AC		R	Zener Diode, 8.1V
D1001	RH-PX0013PEZZ	AC		R	Photodiode
D1010	RH-EX0636GEZZ*	AC		R	Zener Diode, 11V
D1081	VHD1SS133++-1*			R	Diode, 1SS133
D1091	VHD1SS133++-1*			R	Diode, 1SS133
D1094	VHD1SS133++-1*			R	Diode, 1SS133

	NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
	[3] MAIN UNIT					
	D1170	VHD1SS133++-1*			R	Diode, 1SS133
	D1171	VHD1SS133++-1*			R	Diode, 1SS133
	D1801	VHD1SS133++-1*			R	Diode, 1SS133
⚠	VA701	RH-VX0073CEZZ	AD		R	Varistor
⚠	PR701	RMPTP0085CEZZ	AL		R	Packaged Circuit
	X801	RCRSAA019WJZZ	AF		R	Crystal
	L203	VP-DF270K0000*	AB		R	Peaking 27μH
	L204	VP-XF1R2K0000*	AB		R	Peaking 1.2μH
	L602	RCiLP0223CEZZ	AE		R	Coil
⚠	L701	RCiLF0086PEN1	AF		R	Coil
	L751	RCiLP0179CEZZ+	AD		R	Coil
	L801	VP-CF220K0000*	AB		R	Peaking 22μH
	L802	VP-DF100K0000*	AB		R	Peaking 10μH
	L803	VP-DF100K0000*	AB		R	Peaking 10μH
	L806	VP-DF100K0000*	AB		R	Peaking 10μH
	L808	VP-XF330K0000*	AB		R	Peaking 33μH
	SF201	RFiLC0037PEZZ	AP		R	Filter
⚠	T602	RTRNFA104WJZZ	AW		R	H-Volt Transformer
⚠	T603	RTRNZA058WJZZ	AD		R	Transformer
⚠	T701	RTRNWA153WJZZ	AK		R	Transformer
	C201	VCEA0A1CW476M+	AB		R	47 16V Electrolytic
	C202	VCEA0A0JW108M+	AC		R	1000 6.3V Electrolytic
	C203	VCKYCY1HF103Z*	AA		R	0.01 50V Ceramic
	C206	VCEA0A1HW106M+	AB		R	10 50V Electrolytic
	C207	VCKYCY1HF103Z*	AA		R	0.01 50V Ceramic
	C208	VCKYCY1HF103Z*	AA		R	0.01 50V Ceramic
	C209	VCKYCY1HF103Z*	AA		R	0.01 50V Ceramic
	C210	VCKYCY1HF103Z*	AA		R	0.01 50V Ceramic
	C212	VCKYCY1HF103Z*	AA		R	0.01 50V Ceramic
	C301	VCEA0A1CW477M+	AC		R	470 16V Electrolytic
	C304	VCEA0A1HW105M+	AB		R	1 50V Electrolytic
	C308	VCKYCY1HB682K*	AA		R	6800p 50V Ceramic
	C310	VCEA0A1HW474M+	AB		R	0.47 50V Electrolytic
	C311	VCEA0A1HW474M+	AB		R	0.47 50V Electrolytic
	C313	VCKYCY1HB682K*	AA		R	6800p 50V Ceramic
	C318	VCEA0A1CW107M+	AC		R	100 16V Electrolytic
	C319	VCEA0A1CW106M+	AB		R	10 16V Electrolytic
	C320	VCEA0A1CW106M+	AB		R	10 16V Electrolytic
	C322	VCEA0A1HW475M+	AB		R	4.7 50V Electrolytic
	C383	VCEA0A1CW106M+	AB		R	10 16V Electrolytic
	C387	VCEA0A1CW106M+	AB		R	10 16V Electrolytic
	C391	VCKYPA1HB102K+	AA		R	1000p 50V Ceramic
	C393	VCEA0A1EW108M+	AD		R	1000 25V Electrolytic
	C401	VCKYCY1HF103Z*	AA		R	0.01 50V Ceramic
	C434	VCEA0A1CW106M+	AB		R	10 16V Electrolytic
	C435	VCE9GA1CW106M+	AB		R	10 16V Electrolytic_ (N.P)
	C437	VCEA0A1CW106M+	AB		R	10 16V Electrolytic
	C438	VCEA0A1CW106M+	AB		R	10 16V Electrolytic
	C451	VCEA0A1CW477M+	AC		R	470 16V Electrolytic
	C505	VCEA0A1HW107M+	AB		R	100 50V Electrolytic
	C508	VCFYAA2AA224J+	AD		R	0.22 100V Mylar
	C509	VCKYPA2HB472K+	AB		R	4700p 500V Ceramic
	C511	VCEA0A1VW477M+	AB		R	470 35V Electrolytic
	C512	VCKYPA2HB102K+	AA		R	1000p 500V Ceramic
	C513	RC-EZA332WJZZ+	AD		R	1000 35V Electrolytic
	C515	VCEACA1HC335J+	AC		R	3.3 50V Electrolytic
	C601	VCQYTA1HM563J+	AB		R	0.056 50V Mylar
	C602	VCEA0A1HW475M+	AB		R	4.7 50V Electrolytic
	C604	VCEA0A2EW336M+	AD		R	33 250V Electrolytic
	C606	VCKYPA2HB102K+	AA		R	1000p 500V Ceramic
⚠	C607	VCFPVC3ZA972H	AD		R	9700p 1.8kV Metalized Polypro Film
	C608	VCQYTA2AA103K+	AC		R	0.01 100V Mylar
	C610	VCEA0A1EW227M+	AB		R	220 25V Electrolytic
	C611	VCFPVC2DB334J	AD		R	0.33 200V Metalized Polypro Film
	C642	VCEA0A1EW476M+	AB		R	47 25V Electrolytic
	C643	VCEA0A1CW477M+	AC		R	470 16V Electrolytic
	C650	VCKYPA2HB101K+	AB		R	100p 500V Ceramic
⚠	C701	RC-FZ032SCEZZ	AD		R	0.22 275V Metalized Polypropylene
	C702	RC-KZ0029CEZZ+	AC		R	0.01 250V Ceramic
	C703	RC-KZ0029CEZZ+	AC		R	0.01 250V Ceramic
	C704	RC-KZ0029CEZZ+	AC		R	0.01 250V Ceramic
⚠	C705	RC-EZA097WJZZ	AM		R	220 400V Electrolytic
	C706	VCEA0A1VW226M+	AB		R	22 35V Electrolytic
	C708	VCKYPA1HB471K+	AA		R	470p 50V Ceramic
	C709	VCEA9M1HW105M+	AB		R	1 50V Electrolytic
	C710	VCFYFA1HA104J+	AA		R	0.1 50V Mylar
	C711	VCKYPA1HB681K+	AA		R	680p 50V Ceramic
	C713	RC-KZ0107GEZZ	AE		R	3900p 250V Ceramic
	C716	VCEA0A1CW226M+	AB		R	22 16V Electrolytic
	C743	VCKYPH3DB561K	AC		R	560p 2kV Ceramic
⚠	C750	VCKYPA2HB102K+	AA		R	1000p 500V Ceramic
	C752	VCKYPH3DB561K	AC		R	560p 2kV Ceramic
	C753	RC-EZ0724CEZZ	AG		R	100 160V Electrolytic
	C754	RC-EZ0638CEZZ	AG		R	33 160V Electrolytic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[3] MAIN UNIT					
C756	VCEA0A1EW228M+	AE		R	2200 25V Electrolytic
C757	VCKYCY1HB471K*	AB		R	470p 50V Ceramic
C784	RC-KZ1018CEZZ+	AC		R	1000p 2kV Ceramic
C801	VCFYFA1HA105J+	AE		R	1 50V Mylar
C802	VCKYCY1HF103Z*	AA		R	0.01 50V Ceramic
C803	VCEA0A1CW108M+	AD		R	1000 16V Electrolytic
C804	VCKYCY1HF103Z*	AA		R	0.01 50V Ceramic
C805	VCEA0A1HW105M+	AB		R	1 50V Electrolytic
C806	VCKYCY1HF103Z*	AA		R	0.01 50V Ceramic
C807	VCEA0A1CW108M+	AD		R	1000 16V Electrolytic
C808	VCKYCY1HF103Z*	AA		R	0.01 50V Ceramic
C809	VCKYCY1HF103Z*	AA		R	0.01 50V Ceramic
C810	VCKYCY1HF103Z*	AA		R	0.01 50V Ceramic
C811	VCEA9M1CW107M+	AB		R	100 16V Electrolytic
C813	VCCCCY1HH181J*	AA		R	180p 50V Ceramic
C814	VCKYCY1HF103Z*	AA		R	0.01 50V Ceramic
C815	VCKYCY1HF103Z*	AA		R	0.01 50V Ceramic
C817	VCEA0A1CW107M+	AC		R	100 16V Electrolytic
C818	VCEA9M1HW475M+	AB		R	4.7 50V Electrolytic
C819	VCCCCY1HH121J*	AA		R	120p 50V Ceramic
C820	VCEA9M1HW474M+	AB		R	0.47 50V Electrolytic
C821	VCKYCY1HF153Z*	AB		R	0.015 50V Ceramic
C822	VCEA0A1HW105M+	AB		R	1 50V Electrolytic
C823	VCKYCY1EF104Z*	AA		R	0.1 25V Ceramic
C824	VCEA0A1CW337M+	AC		R	330 16V Electrolytic
C825	VCEA0A1HW105M+	AB		R	1 50V Electrolytic
C827	VCEA0A1CW477M+	AC		R	470 16V Electrolytic
C828	VCKYCY1HF103Z*	AA		R	0.01 50V Ceramic
C829	VCEA0A1CW476M+	AB		R	47 16V Electrolytic
C831	VCKYCY1EF104Z*	AA		R	0.1 25V Ceramic
C833	VCKYCY1EF104Z*	AA		R	0.1 25V Ceramic
C834	VCEA0A1CW476M+	AB		R	47 16V Electrolytic
C835	VCEA0A1CW106M+	AB		R	10 16V Electrolytic
C837	VCEA0A1HW474M+	AB		R	0.47 50V Electrolytic
C839	VCKYCY1HB392K*	AA		R	3900p 50V Ceramic
C840	VCFYFA1HA105J+	AE		R	1 50V Mylar
C841	VCCCCY1HH220J*	AA		R	22p 50V Ceramic
C842	VCEA0A1HW474M+	AB		R	0.47 50V Electrolytic
C843	VCEA0A1HW105M+	AB		R	1 50V Electrolytic
C845	VCKYCY1CF224Z*	AB		R	0.22 16V Ceramic
C847	VCCCCY1HH220J*	AA		R	22p 50V Ceramic
C848	VCEA0A1HW474M+	AB		R	0.47 50V Electrolytic
C1003	VCEA0A1CW106M+	AB		R	10 16V Electrolytic
C1004	VCKYCY1CF474Z*	AB		R	0.47 16V Ceramic
C1006	VCEA0A1HW225M+	AB		R	2.2 50V Electrolytic
C1007	VCEA0A1CW107M+	AC		R	100 16V Electrolytic
C1008	VCKYCY1HF103Z*	AA		R	0.01 50V Ceramic
C1009	VCKYCY1HF103Z*	AA		R	0.01 50V Ceramic
C1011	VCKYCY1HB221K*	AA		R	220p 50V Ceramic
C1012	VCEA0A1HW105M+	AB		R	1 50V Electrolytic
C1014	VCEA0A1HW475M+	AB		R	4.7 50V Electrolytic
C1015	VCCCCY1HH101J*	AA		R	100p 50V Ceramic
C1016	VCKYCY1EF104Z*	AA		R	0.1 25V Ceramic
C1081	VCQYTA1HM104J+	AB		R	0.1 50V Mylar
C1170	VCEA0A1CW107M+	AC		R	100 16V Electrolytic
C1801	VCEA0A1CW106M+	AB		R	10 16V Electrolytic
C1849	VCFYFA1HA104J+	AA		R	0.1 50V Mylar
C1851	VCFYFA1HA224J+	AB		R	0.22 50V Mylar
C1852	VCFYFA1HA224J+	AB		R	0.22 50V Mylar
C1853	VCFYFA1HA105J+	AE		R	1 50V Mylar
C1856	VCKYCY1HB102K*	AA		R	1000p 50V Ceramic
C1867	VCCCCY1HH150J*	AA		R	15p 50V Ceramic
C1868	VCEA0A1CW336M+	AB		R	33 16V Electrolytic
C1896	VCKYCY1HB182K*	AA		R	1800p 50V Ceramic
RJ1	VRS-CY1JF000J*	AA		R	0 1/16W Metal Oxide
RJ6	VRS-CY1JF000J*	AA		R	0 1/16W Metal Oxide
RJ9	VRS-CY1JF000J*	AA		R	0 1/16W Metal Oxide
RJ10	VRS-CY1JF000J*	AA		R	0 1/16W Metal Oxide
RJ11	VRS-CY1JF000J*	AA		R	0 1/16W Metal Oxide
RJ12	VRS-CY1JF000J*	AA		R	0 1/16W Metal Oxide
RJ13	VRS-CY1JF000J*	AA		R	0 1/16W Metal Oxide
RJ15	VRS-CY1JF000J*	AA		R	0 1/16W Metal Oxide
RJ16	VRS-CY1JF000J*	AA		R	0 1/16W Metal Oxide
RJ20	VRS-CY1JF000J*	AA		R	0 1/16W Metal Oxide
RJ22	VRS-CY1JF000J*	AA		R	0 1/16W Metal Oxide
RJ25	VRS-CY1JF000J*	AA		R	0 1/16W Metal Oxide
RJ29	VRS-CY1JF000J*	AA		R	0 1/16W Metal Oxide
RJ30	VRS-CY1JF000J*	AA		R	0 1/16W Metal Oxide
RJ39	VRS-CY1JF000J*	AA		R	0 1/16W Metal Oxide
RJ42	VRS-CY1JF000J*	AA		R	0 1/16W Metal Oxide
RJ43	VRS-CY1JF000J*	AA		R	0 1/16W Metal Oxide
R201	VRS-CY1JF101J*	AA		R	100 1/16W Metal Oxide
R202	VRS-CY1JF101J*	AA		R	100 1/16W Metal Oxide
R205	VRS-CY1JF680J*	AA		R	68 1/16W Metal Oxide
R206	VRS-CY1JF122J*	AA		R	1.2k 1/16W Metal Oxide

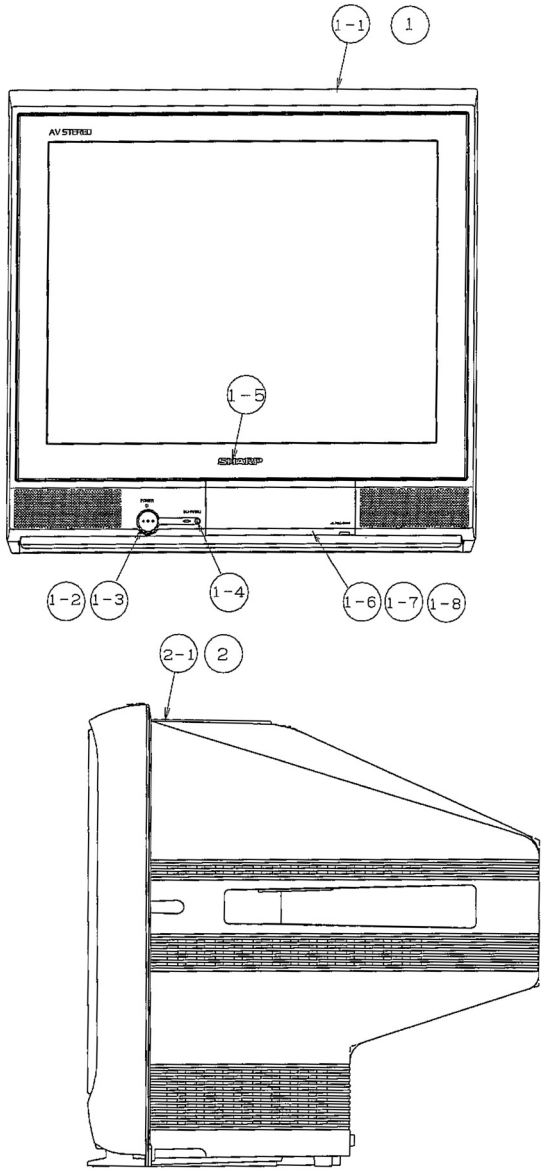
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[3] MAIN UNIT					
R207	VRS-CY1JF221J*	AA		R	220 1/16W Metal Oxide
R208	VRS-CY1JF681J*	AA		R	680 1/16W Metal Oxide
R209	VRS-CY1JF392J*	AA		R	3.9k 1/16W Metal Oxide
R210	VRS-CY1JF392J*	AA		R	3.9k 1/16W Metal Oxide
R211	VRS-CY1JF682J*	AA		R	6.8k 1/16W Metal Oxide
R212	VRS-CY1JF222J*	AA		R	2.2k 1/16W Metal Oxide
R213	VRS-CY1JF332J*	AA		R	3.3k 1/16W Metal Oxide
R214	VRD-RA2BE332J*	AA		R	3.3k 1/8W Carbon
R216	VRS-VV3LB333J	AB		R	33k 3W Metal Oxide
R220	VRS-CY1JF221J*	AA		R	220 1/16W Metal Oxide
R301	VRS-CY1JF102J*	AA		R	1k 1/16W Metal Oxide
R302	VRN-VV3DBR10J	AB		R	0.1 2W Metal Film
R303	VRS-CY1JF473J*	AA		R	47k 1/16W Metal Oxide
R304	VRD-RA2BE683J*	AA		R	68k 1/8W Carbon
R305	VRS-CY1JF274J*	AA		R	270k 1/16W Metal Oxide
R307	VRS-CY1JF182J*	AA		R	1.8k 1/16W Metal Oxide
R308	VRD-RA2BE822J*	AA		R	8.2k 1/8W Carbon
R314	VRD-RA2BE822J*	AA		R	8.2k 1/8W Carbon
R315	VRS-CY1JF182J*	AA		R	1.8k 1/16W Metal Oxide
R318	VRD-RA2BE680J*	AA		R	68 1/8W Carbon
R319	VRD-RA2BE680J*	AA		R	68 1/8W Carbon
R353	VRS-CY1JF102J*	AA		R	1k 1/16W Metal Oxide
R356	VRD-RA2BE102J*	AA		R	1k 1/8W Carbon
R362	VRS-CY1JF332J*	AA		R	3.3k 1/16W Metal Oxide
R366	VRS-CY1JF332J*	AA		R	3.3k 1/16W Metal Oxide
R372	VRS-CY1JF104J*	AA		R	100k 1/16W Metal Oxide
R373	VRS-CY1JF103J*	AA		R	10k 1/16W Metal Oxide
R374	VRS-CY1JF104J*	AA		R	100k 1/16W Metal Oxide
R376	VRD-RA2BE472J*	AA		R	4.7k 1/8W Carbon
R382	VRS-CY1JF332J*	AA		R	3.3k 1/16W Metal Oxide
R384	VRS-CY1JF332J*	AA		R	3.3k 1/16W Metal Oxide
R431	VRS-CY1JF101J*	AA		R	100 1/16W Metal Oxide
R432	VRS-CY1JF750J*	AA		R	75 1/16W Metal Oxide
R433	VRS-CY1JF750J*	AA		R	75 1/16W Metal Oxide
R434	VRS-CY1JF750J*	AA		R	75 1/16W Metal Oxide
R435	VRS-CY1JF750J*	AA		R	75 1/16W Metal Oxide
R436	VRD-RA2BE101J*	AA		R	100 1/8W Carbon
R437	VRS-CY1JF101J*	AA		R	100 1/16W Metal Oxide
R438	VRS-CY1JF000J*	AA		R	0 1/16W Metal Oxide
R458	VRS-CY1JF103J*	AA		R	10k 1/16W Metal Oxide
R459	VRD-RA2EE750J*			R	75 1/4W Carbon
R461	VRS-CY1JF750J*	AA		R	75 1/16W Metal Oxide
R462	VRD-RA2BE101J*	AA		R	100 1/8W Carbon
R503	VRN-VV3DB1R2J	AA		R	1.2 2W Metal Film
R504	VRS-CY1JF222J*	AA		R	2.2k 1/16W Metal Oxide
R506	VRS-VV3AB331J	AA		R	330 1W Metal Oxide
R507	VRD-RM2HD1R0J*	AA		R	1 1/2W Carbon
R513	VRD-RM2HD333JY	AB		R	33k 1/2W Carbon
R514	VRD-RM2HD682J*	AA		R	6.8k 1/2W Carbon
R520	VRS-CY1JF153J*	AA		R	15k 1/16W Metal Oxide
R523	VRD-RA2BE103J*	AA		R	10k 1/8W Carbon
R524	VRD-RA2BE103J*	AA		R	10k 1/8W Carbon
R525	VRD-RA2BE102J*	AA		R	1k 1/8W Carbon
R526	VRD-RA2BE101J*	AA		R	100 1/8W Carbon
R601	VRD-RM2HD820J*	AA		R	82 1/2W Carbon
R602	VRD-RA2BE393J*	AA		R	39k 1/8W Carbon
R603	VRD-RA2BE683J*	AA		R	68k 1/8W Carbon
R604	VRD-RA2BE473J*	AA		R	47k 1/8W Carbon
R605	VRD-RM2HD104J*	AA		R	100k 1/2W Carbon
R607	VRD-RM2HD121J*	AA		R	120 1/2W Carbon
⚠ R608	VRD-RM2HD102J*	AA		R	1k 1/2W Carbon
R609	VRD-RM2HD270J*	AA		R	27 1/2W Carbon
⚠ R611	VRN-VV3AB1R0J	AA		R	1 1W Metal Film
⚠ R612	VRD-RM2HD270J*	AA		R	27 1/2W Carbon
R614	VRD-RA2BE154J*	AA		R	150k 1/8W Carbon
R615	VRD-RA2BE102J*	AA		R	1k 1/8W Carbon
R616	VRD-RA2BE102J*	AA		R	1k 1/8W Carbon
R617	VRS-CY1JF123J*	AA		R	12k 1/16W Metal Oxide
R618	VRS-CY1JF103J*	AA		R	10k 1/16W Metal Oxide
R621	VRN-SV2HC4R7J	AA		R	4.7 1/2W Metal Film
R622	VRS-VV3DB682J	AA		R	6.8k 2W Metal Oxide
R625	VRD-RM2HD184J*	AA		R	180k 1/2W Carbon
R626	VRS-CY1JF472J*	AA		R	4.7k 1/16W Metal Oxide
R627	VRD-RA2BE103J*	AA		R	10k 1/8W Carbon
R631	VRS-KT3LB391J	AD		R	390 3W Metal Oxide
R637	VRD-RA2BE331J*	AA		R	330 1/8W Carbon
R638	VRD-RA2BE181J*	AA		R	180 1/8W Carbon
R639	VRD-RM2HD271J*	AA		R	270 1/2W Carbon
R642	VRN-VV3DB1R0J	AB		R	1 2W Metal Film
R661	VRD-RA2BE102J*	AA		R	1k 1/8W Carbon
R662	VRD-RA2BE103J*	AA		R	10k 1/8W Carbon
R702	VRD-RM2HD154JY	AA		R	150k 1/2W Carbon
R703	VRD-RA2BE562J*	AA		R	5.6k 1/8W Carbon
R704	VRD-RA2BE101J*	AA		R	100 1/8W Carbon
⚠ R705	VRN-VV3DBR47J	AB		R	0.47 2W Metal Film

	NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
	[3] MAIN UNIT					
⚠	R706	VRN-VV3DBR39J	AA		R	0.39 2W Metal Film
	R709	VRS-CY1JF473J*	AA		R	47k 1/16W Metal Oxide
	R710	VRD-RM2HD220J*	AA		R	22 1/2W Carbon
	R711	VRD-RA2EE122J*	AA		R	1.2k 1/4W Carbon
	R712	VRD-RA2BE102J*	AA		R	1k 1/8W Carbon
	R713	VRD-RA2BE102J*	AA		R	1k 1/8W Carbon
	R714	VRS-CY1JF103J*	AA		R	10k 1/16W Metal Oxide
	R715	VRS-CY1JF102J*	AA		R	1k 1/16W Metal Oxide
	R716	VRS-CY1JF102J*	AA		R	1k 1/16W Metal Oxide
⚠	R718	VRC-UA2HG275KY	AC		R	2.7M 1/2W Solid
	R719	VRS-CY1JF222J*	AA		R	2.2k 1/16W Metal Oxide
	R725	VRD-RM2HD821JY	AA		R	820 1/2W Carbon
	R726	VRN-SV2HCR47J	AA		R	0.47 1/2W Metal Film
⚠	R751	VRC-UA2HG825K*	AA		R	8.2M 1/2W Solid
⚠	R752	VRC-UA2HG825K*	AA		R	8.2M 1/2W Solid
	R753	VRD-RM2HD334J*	AA		R	330k 1/2W Carbon
	R754	VRN-VV3AB8R2J	AA		R	8.2 1W Metal Film
	R756	VRS-VV3DB121J	AA		R	120 2W Metal Oxide
	R801	VRS-CY1JF102J*	AA		R	1k 1/16W Metal Oxide
	R802	VRS-CY1JF682J*	AA		R	6.8k 1/16W Metal Oxide
	R803	VRS-CY1JF103J*	AA		R	10k 1/16W Metal Oxide
	R804	VRS-CY1JF222J*	AA		R	2.2k 1/16W Metal Oxide
	R805	VRS-CY1JF222J*	AA		R	2.2k 1/16W Metal Oxide
	R806	VRS-CY1JF222J*	AA		R	2.2k 1/16W Metal Oxide
	R807	VRS-CY1JF222J*	AA		R	2.2k 1/16W Metal Oxide
	R808	VRD-RA2BE273J*	AA		R	27k 1/8W Carbon
	R812	VRS-CY1JF101J*	AA		R	100 1/16W Metal Oxide
	R814	VRS-CY1JF473J*	AA		R	47k 1/16W Metal Oxide
	R815	VRS-CY1JF473J*	AA		R	47k 1/16W Metal Oxide
	R816	VRS-CY1JF223J*	AA		R	22k 1/16W Metal Oxide
	R817	VRS-CY1JF473J*	AA		R	47k 1/16W Metal Oxide
	R821	VRS-CY1JF821J*	AA		R	820 1/16W Metal Oxide
	R823	VRD-RA2BE101J*	AA		R	100 1/8W Carbon
	R824	VRD-RA2BE101J*	AA		R	100 1/8W Carbon
	R826	VRD-RA2BE101J*	AA		R	100 1/8W Carbon
	R829	VRD-RA2BE472J*	AA		R	4.7k 1/8W Carbon
	R830	VRS-CY1JF393J*	AA		R	39k 1/16W Metal Oxide
	R831	VRD-RA2BE331J*	AA		R	330 1/8W Carbon
	R832	VRS-CY1JF822J*	AA		R	8.2k 1/16W Metal Oxide
	R833	VRS-CY1JF220JY	AA		R	22 1/16W Metal Oxide
	R835	VRS-CY1JF102J*	AA		R	1k 1/16W Metal Oxide
	R837	VRD-RM2HD151J*	AA		R	150 1/2W Carbon
	R838	VRD-RA2BE105JY	AA		R	1M 1/8W Carbon
	R839	VRD-RA2BE101J*	AA		R	100 1/8W Carbon
	R840	VRS-CY1JF124J*	AA		R	120k 1/16W Metal Oxide
	R841	VRD-RA2BE152J*	AA		R	1.5k 1/8W Carbon
	R842	VRS-CY1JF562J*	AA		R	5.6k 1/16W Metal Oxide
	R843	VRS-CY1JF103J*	AA		R	10k 1/16W Metal Oxide
	R1002	VRS-CY1JF183J*	AA		R	18k 1/16W Metal Oxide
	R1003	VRS-CY1JF822J*	AA		R	8.2k 1/16W Metal Oxide
	R1005	VRD-RA2BE103J*	AA		R	10k 1/8W Carbon
	R1006	VRS-CY1JF822J*	AA		R	8.2k 1/16W Metal Oxide
	R1007	VRS-CY1JF103J*	AA		R	10k 1/16W Metal Oxide
	R1008	VRS-CY1JF183J*	AA		R	18k 1/16W Metal Oxide
	R1009	VRS-CY1JF103J*	AA		R	10k 1/16W Metal Oxide
	R1010	VRD-RA2BE102J*	AA		R	1k 1/8W Carbon
	R1011	VRD-RA2BE101J*	AA		R	100 1/8W Carbon
	R1012	VRD-RA2BE101J*	AA		R	100 1/8W Carbon
	R1013	VRD-RA2BE391JY	AA		R	390 1/8W Carbon
	R1024	VRS-CY1JF101J*	AA		R	100 1/16W Metal Oxide
	R1027	VRS-CY1JF104J*	AA		R	100k 1/16W Metal Oxide
	R1031	VRD-RA2BE101J*	AA		R	100 1/8W Carbon
	R1032	VRS-CY1JF332J*	AA		R	3.3k 1/16W Metal Oxide
	R1034	VRS-CY1JF104J*	AA		R	100k 1/16W Metal Oxide
	R1035	VRD-RA2BE101J*	AA		R	100 1/8W Carbon
	R1036	VRS-CY1JF103J*	AA		R	10k 1/16W Metal Oxide
	R1037	VRS-CY1JF103J*	AA		R	10k 1/16W Metal Oxide
	R1038	VRS-CY1JF562J*	AA		R	5.6k 1/16W Metal Oxide
	R1039	VRS-CY1JF102J*	AA		R	1k 1/16W Metal Oxide
	R1042	VRD-RA2BE101J*	AA		R	100 1/8W Carbon
	R1043	VRS-CY1JF104J*	AA		R	100k 1/16W Metal Oxide
	R1044	VRS-CY1JF101J*	AA		R	100 1/16W Metal Oxide
	R1045	VRD-RA2BE101J*	AA		R	100 1/8W Carbon
	R1046	VRS-CY1JF101J*	AA		R	100 1/16W Metal Oxide
	R1047	VRS-CY1JF183J*	AA		R	18k 1/16W Metal Oxide
	R1048	VRS-CY1JF101J*	AA		R	100 1/16W Metal Oxide
	R1049	VRS-CY1JF183J*	AA		R	18k 1/16W Metal Oxide
	R1051	VRD-RA2BE104J*	AA		R	100k 1/8W Carbon
	R1053	VRD-RA2BE101J*	AA		R	100 1/8W Carbon
	R1054	VRD-RA2BE101J*	AA		R	100 1/8W Carbon
	R1055	VRS-CY1JF332J*	AA		R	3.3k 1/16W Metal Oxide
	R1056	VRS-CY1JF332J*	AA		R	3.3k 1/16W Metal Oxide
	R1061	VRS-CY1JF102J*	AA		R	1k 1/16W Metal Oxide
	R1063	VRS-CY1JF103J*	AA		R	10k 1/16W Metal Oxide
	R1064	VRS-CY1JF103J*	AA		R	10k 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[3] MAIN UNIT					
R1065	VRS-CY1JF103J*	AA		R	10k 1/16W Metal Oxide
R1066	VRS-CY1JF102J*	AA		R	1k 1/16W Metal Oxide
R1072	VRS-CY1JF221J*	AA		R	220 1/16W Metal Oxide
R1073	VRD-RA2BE101J*	AA		R	100 1/8W Carbon
R1074	VRS-CY1JF332J*	AA		R	3.3k 1/16W Metal Oxide
R1076	VRS-CY1JF102J*	AA		R	1k 1/16W Metal Oxide
R1078	VRS-CY1JF332J*	AA		R	3.3k 1/16W Metal Oxide
R1079	VRS-CY1JF332J*	AA		R	3.3k 1/16W Metal Oxide
R1087	VRS-CY1JF391J*	AA		R	390 1/16W Metal Oxide
R1096	VRS-CY1JF332J*	AA		R	3.3k 1/16W Metal Oxide
R1170	VRD-RA2BE103J*	AA		R	10k 1/8W Carbon
R1171	VRS-CY1JF103J*	AA		R	10k 1/16W Metal Oxide
R1172	VRS-CY1JF222J*	AA		R	2.2k 1/16W Metal Oxide
R1801	VRD-RA2BE222J*	AA		R	2.2k 1/8W Carbon
R1802	VRS-CY1JF124J*	AA		R	120k 1/16W Metal Oxide
R1841	VRD-RA2BE825JY	AA		R	8.2M 1/8W Carbon
R1849	VRS-CY1JF221J*	AA		R	220 1/16W Metal Oxide
R1850	VRS-CY1JF681J*	AA		R	680 1/16W Metal Oxide
R1851	VRS-CY1JF221J*	AA		R	220 1/16W Metal Oxide
R1852	VRS-CY1JF221J*	AA		R	220 1/16W Metal Oxide
R1853	VRS-CY1JF221J*	AA		R	220 1/16W Metal Oxide
R1854	VRS-CY1JF103J*	AA		R	10k 1/16W Metal Oxide
R1855	VRS-CY1JF122J*	AA		R	1.2k 1/16W Metal Oxide
R1856	VRS-CY1JF223J*	AA		R	22k 1/16W Metal Oxide
R1867	VRS-CY1JF103J*	AA		R	10k 1/16W Metal Oxide
R1894	VRD-RA2BE223J*	AA		R	22k 1/8W Carbon
R1895	VRS-CY1JF473J*	AA		R	47k 1/16W Metal Oxide
R1896	VRS-CY1JF473J*	AA		R	47k 1/16W Metal Oxide
R3006	VRS-CY1JF101J*	AA		R	100 1/16W Metal Oxide
R3009	VRS-CY1JF101J*	AA		R	100 1/16W Metal Oxide
S701	QSW-PA006WJZZ	AG		R	Switch, POWER
S1001	QSW-K0079GEZZ+	AB		R	Switch, CH UP
S1002	QSW-K0079GEZZ+	AB		R	Switch, CH DOWN
S1003	QSW-K0079GEZZ+	AB		R	Switch, VOL UP
S1004	QSW-K0079GEZZ+	AB		R	Switch, VOL DOWN
S1005	QSW-K0079GEZZ+	AB		R	Switch, MENU
⚠ RY701	RRLYJ0089CEZZ	AG		R	Relay
⚠ F701	QFS-C3225CEZZ	AC		R	Fuse, 3.15A 250V
FB601	RBLN-0091GEZZ*	AB		R	Balun
FH701	QFSHD1013CEZZ+	AC		R	Fuse Holder
FH702	QFSHD1014CEZZ+	AC		R	Fuse Holder
J401	QJAKGA015WJZZ	AH		R	Jack
J402	QJAKE0211CE04	AD		R	Jack
J403	QJAKE0211CE09	AD		R	Jack
J404	QJAKE0210CE02	AC		R	Jack
J405	QTANJ0644CEZZ	AM		R	Terminal
P302	QPLGN0461CEZZ	AB		R	Plug, 4Pin (S)
P304	QPLGN0761CEZZ	AD		R	Plug, 7Pin (HP)
P601	QPLGN0660CEZZ	AC		R	Plug, 6Pin (F)
P602	QPLGN0561CEZZ	AB		R	Plug, 5Pin (H)
P701	QPLGN0260CEZZ	AC		R	Plug, 2Pin (M)
P702	QPLGN0269GEZZ	AB		R	Plug, 2Pin
P1001	QPLGN0578GEZZ	AB		R	Plug, 5Pin (K)
P1002	QPLGN0561CEZZ	AB		R	Plug, 5Pin (BC)
RMC1001	RRMCUA022WJZZ	AG		R	Remote Receiver
RDA301	PRDARA171WJFW	AC		R	Heat Sink for IC301
RDA501	PRDARA120WJFW	AD		R	Heat Sink for IC501
RDA601	PRDARA167WJFW	AD		R	Heat Sink for IC601
RDA602	PRDAR0337PEFW	AD		R	Heat Sink for Q602
RDA701	PRDARA119WJFW	AF		R	Heat Sink for IC701
NR701	RH-HXA013WJZZ+	AD		R	Thermistor
JA412	VRD-RA2BE101J*	AA		R	100 1/8W Carbon
TP801	QLUGP0111GEFW	AA		R	Lug
[4] CRT UNIT					
					PWB-B: DUNTKA599WEH7
Q853	RH-TX0110BMZZ+	AC		R	TX0110
Q854	RH-TX0110BMZZ+	AC		R	TX0110
Q855	RH-TX0110BMZZ+	AC		R	TX0110
Q894	VS2PA1015Y+-1+	AC		R	2PA1015Y
D859	VHD1SS133++-1*			R	Diode, 1SS133
D896	RH-EX0616GEZZ*	AA		R	Zener Diode, 5.6V
D898	VHD1SS133++-1*			R	Diode, 1SS133
L851	VP-MK820K0000+	AB		R	Peaking 82μH
C851	VCKYPA1HB561K+	AA		R	560p 50V Ceramic
C852	VCKYPA1HB391K+	AA		R	390p 50V Ceramic
C853	VCKYPA1HB271K+	AB		R	270p 50V Ceramic
C880	RC-KZ0153CEZZ	AB		R	1000p 3kV Ceramic
C893	VCEA0A1CW336M+	AB		R	33 16V Electrolytic
R849	VRD-RA2BE271J*	AA		R	270 1/8W Carbon
R850	VRD-RA2BE470J*	AA		R	47 1/8W Carbon
R851	VRD-RA2BE470J*	AA		R	47 1/8W Carbon
R852	VRD-RA2BE470J*	AA		R	47 1/8W Carbon
R854	VRD-RA2BE271J*	AA		R	270 1/8W Carbon
R855	VRD-RA2BE271J*	AA		R	270 1/8W Carbon

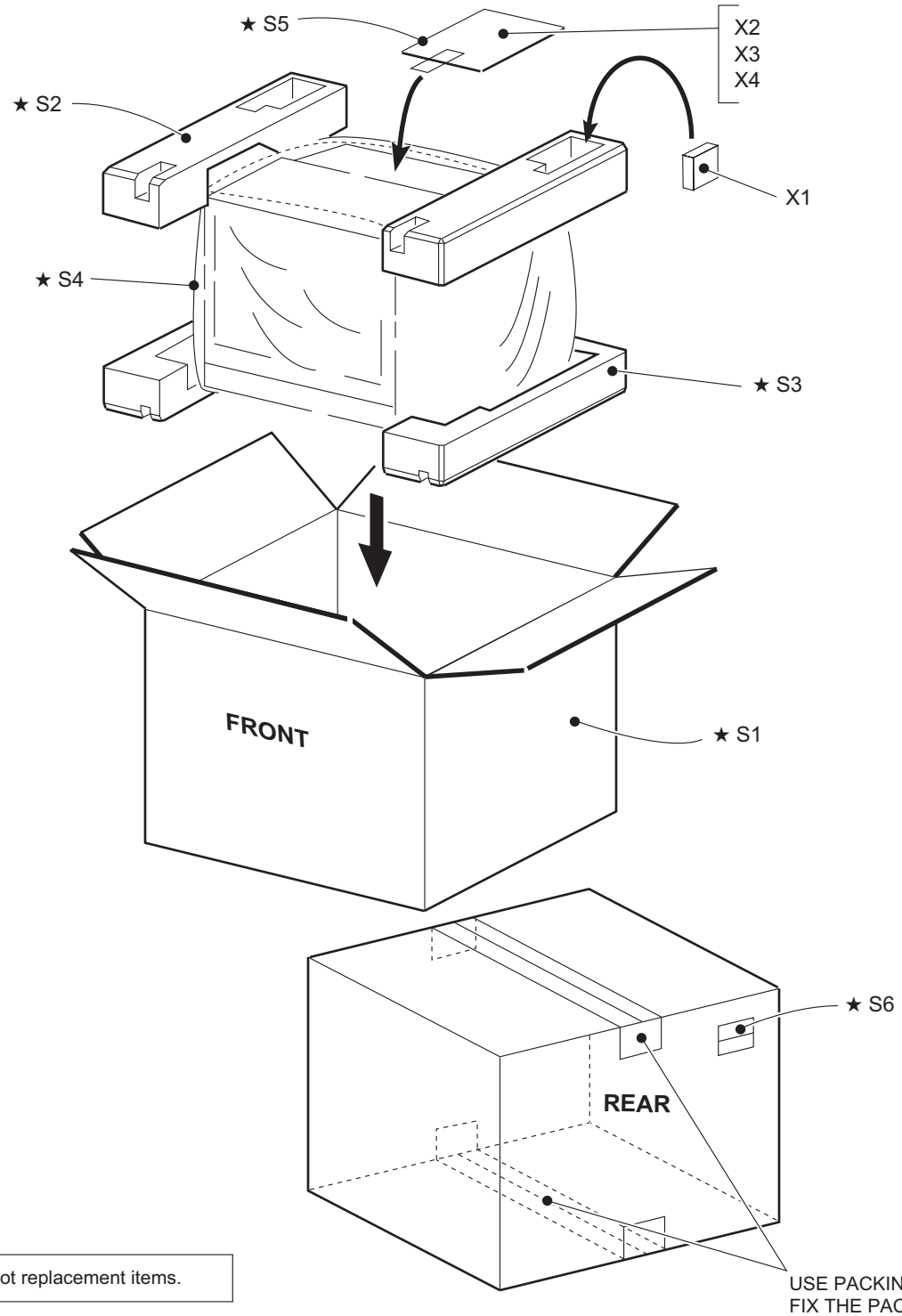
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[4] CRT UNIT					
⚠ R859	VRS-VV3DB153J	AA		R	15k 2W Metal Oxide
⚠ R861	VRS-VV3DB153J	AA		R	15k 2W Metal Oxide
⚠ R863	VRS-VV3DB153J	AA		R	15k 2W Metal Oxide
R864	VRD-RA2BE470J*	AA		R	47 1/8W Carbon
R876	VRD-RA2BE121JY	AA		R	120 1/8W Carbon
R877	VRD-RA2BE121JY	AA		R	120 1/8W Carbon
R878	VRD-RA2BE121JY	AA		R	120 1/8W Carbon
R880	VRD-RM2HD332J*	AA		R	3.3k 1/2W Carbon
R881	VRD-RM2HD332J*	AA		R	3.3k 1/2W Carbon
R882	VRD-RM2HD332J*	AA		R	3.3k 1/2W Carbon
R889	VRD-RA2BE821J*	AA		R	820 1/8W Carbon
R891	VRD-RA2BE561J*	AA		R	560 1/8W Carbon
R892	VRD-RA2BE391JY	AA		R	390 1/8W Carbon
R894	VRD-RA2BE152J*	AA		R	1.5k 1/8W Carbon
R895	VRD-RA2BE561J*	AA		R	560 1/8W Carbon
P860	QPLGN0561CEZZ	AB		R	Plug, 5Pin (H)
P880	QPLGN0578GEZZ	AB		R	Plug, 5Pin (K)
SC851	QSOCV0016PEZZ	AF		R	Socket, 12Pin
[5] HEADPHONE UNIT					
					PWB-C: DUNTKC782WEC1
R370	VRS-CY1JF471J*	AA		R	470 1/16W Metal Oxide
R371	VRS-CY1JF471J*	AA		R	470 1/16W Metal Oxide
J351	QJAKJ0101SEZZ	AE		R	Jack
P351	QPLGN0461CEZZ	AB		R	Plug, 4Pin (HP1)
P352	QPLGN0361CEZZ	AB		R	Plug, 3Pin (HP2)
[6] S-CONTROL UNIT					
					PWB-E: DUNTKC783WEB6
IC3501	VHiNJW1142A-1Y	AM		R	I.C.
D3506	VHD1SS133++-1*			R	Diode, 1SS133
C3501	VCKYCY1CF224Z*	AB		R	0.22 16V Ceramic
C3502	VCKYCY1CF224Z*	AB		R	0.22 16V Ceramic
C3503	VCKYCY1CF224Z*	AB		R	0.22 16V Ceramic
C3504	VCKYCY1CF224Z*	AB		R	0.22 16V Ceramic
C3505	VCKYCY1CF224Z*	AB		R	0.22 16V Ceramic
C3506	VCKYCY1CF224Z*	AB		R	0.22 16V Ceramic
C3507	VCEA0A1HW475M+	AB		R	4.7 50V Electrolytic
C3508	VCEA0A1HW475M+	AB		R	4.7 50V Electrolytic
C3509	VCQYTA1HM223J+	AB		R	0.022 50V Mylar
C3510	VCQYTA1HM223J+	AB		R	0.022 50V Mylar
C3511	VCQYTA1HM222J+	AA		R	2200p 50V Mylar
C3512	VCQYTA1HM222J+	AA		R	2200p 50V Mylar
C3513	VCFYFA1HA224J+	AB		R	0.22 50V Mylar
C3514	VCFYFA1HA224J+	AB		R	0.22 50V Mylar
C3515	VCEA0A1HW474M+	AB		R	0.47 50V Electrolytic
C3516	VCEA0A1HW474M+	AB		R	0.47 50V Electrolytic
C3517	VCEA0A1HW105M+	AB		R	1 50V Electrolytic
C3518	VCFYFA1HA334J+	AB		R	0.33 50V Mylar
C3519	VCEA0A1HW105M+	AB		R	1 50V Electrolytic
C3520	VCEA0A1HW105M+	AB		R	1 50V Electrolytic
C3521	VCEA0A1HW105M+	AB		R	1 50V Electrolytic
C3522	VCEA0A1HW105M+	AB		R	1 50V Electrolytic
C3523	VCKYCY1CF104Z*	AA		R	0.1 16V Ceramic
C3524	VCEA0A1CW108M+	AD		R	1000 16V Electrolytic
C3525	VCKYCY1HF103Z*	AA		R	0.01 50V Ceramic
C3526	VCKYCY1HF103Z*	AA		R	0.01 50V Ceramic
R3501	VRS-CY1JF101J*	AA		R	100 1/16W Metal Oxide
R3502	VRS-CY1JF101J*	AA		R	100 1/16W Metal Oxide
R3503	VRS-CY1JF101J*	AA		R	100 1/16W Metal Oxide
R3504	VRS-CY1JF101J*	AA		R	100 1/16W Metal Oxide
R3505	VRS-CY1JF101J*	AA		R	100 1/16W Metal Oxide
R3506	VRS-CY1JF101J*	AA		R	100 1/16W Metal Oxide
R3507	VRS-CY1JF101J*	AA		R	100 1/16W Metal Oxide
R3508	VRS-CY1JF101J*	AA		R	100 1/16W Metal Oxide
R3509	VRD-RA2BE100J*	AA		R	10 1/8W Carbon
P3007	QPLGZ0610CEZZ	AB		R	Plug, 6Pin (EA)
P3008	QPLGZ0610CEZZ	AB		R	Plug, 6Pin (EC)
P3009	QPLGZ0810CEZZ	AD		R	Plug, 8Pin (EB)
[7] MISCELLANEOUS PARTS					
⚠ ACC701	QACCZA048WJPZ			R	Ac Cord
SP301	VSP9050PB53WA	AH		R	Speaker (L)
SP302	VSP9050PB53WA	AH		R	Speaker (R)
	QCNW-A922WJN1	AE		R	Connecting Cord
	QCNW-A923WJN1	AE		R	Connecting Cord
	QCNW-B266WJZZ	AF		R	Connecting Cord
	QCNW-C881WJZZ	AF		R	Connecting Cord

[8] CABINET PARTS



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[8] CABINET PARTS					
1	CCABAB074WEA0			R	Front Cabinet Ass'y
1-1	Not Available	-		-	Front Cabinet
1-2	JBTN-A455WJSA			R	Power Button
1-3	MSPRC0005PEFW	AB		R	Power Button Spring
1-4	GCOVAB226WJSA			R	R/C Cover
1-5	HBDGB0001KJSC	AE		R	SHARP Badge
1-6	GDORFA152WJKA			R	Door
1-7	MSPRPA025WJFW			R	Door Spring
1-8	HiNDPA343WJZZ			R	Indication Plate
2	CCABBA637WEA0			R	Rear Cabinet Ass'y
2-1	Not Available	-		-	Rear Cabinet
[9] SUPPLIED ACCESSORIES					
X1	RRMCGA296WJSB	AN		R	Infrared Remote Control Unit
X2	TiNS-B955WJZZ			R	Operation Manual
X3	TGAN-A101WJZZ	AC		R	Guarantee Card
X4	TCAUA0001KJZZ	AB		R	Caution Card

[10] PACKING PARTS



★ **MARK** : Not replacement items.

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[10] PACKING PARTS					
					(NOT REPLACEMENT ITEM)
S1	SPAKCC110WJZZ	-		-	Packing Case
S2	SPAKXA765WJZZ	-		-	Buffer Material
S3	SPAKXA766WJZZ	-		-	Buffer Material
S4	SPAKPA162WJZZ	-		-	Wrapping Sheet
S5	SSAKA0230CEZZ	-		-	Wrapping Sack
S6	TLABK0001KJZZ	-		-	No. Label

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